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Bulletin #56

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CLASS SIZE

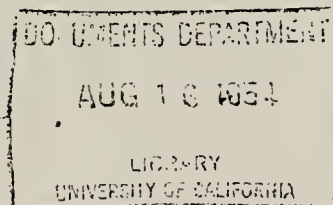
SAN FRANCISCO HIGH SCHOOLS

Fall Term, 1933-1934

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Bulletin No. 56

September, 1933



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OFFICE OF THE SUPERINTENDENT OF SCHOOLS
Bureau of Research, Adult Education, and Evening Schools
September, 1933

CLASS SIZE
SAN FRANCISCO SENIOR HIGH SCHOOLS
FALL TERM, 1933-1934

The data which formed the basis of this study were derived from the teacher programs submitted by the teachers of the high schools in August 1933.

Classes in all high schools meet five times a week. All schools include grades 9 to 12, except Mission, which has grades 10 to 12, and Girls High School which has grades 7 to 12.

TABLE I

Class Size by Departments for All Schools

CLASS SIZE	Art	Com- mer- cial	Eng- lish	Lang- uage	House- hold Arts	Indus- trial Arts	Math- emat- ics	Me- chan- ical Draw- ing	Mu- sic	Phy- si- cal Ed. Boys	Phy- si- cal Ed. Girls	Sci- ence	Soc- ial Sci- ence	R.O. T.C.	To- tal
50 & over		1			2				10	71	57			16	157
45-49		17	5	7	2		1		4	26	46		3	3	114
40-44	5	104	46	32	5		33		9	17	47	4	84	2	388
35-39	6	90	162	85	11	1	68		12	21	29	24	114		623
30-34	33	67	168	87	26	51	71	6	14	9	26	73	86	1	718
25-29	42	54	73	61	46	67	31	37	11	3	9	139	36		609
20-24	49	20	28	46	28	8	22	40	24	1	14	89	14	2	385
15-19	1	1	1	4	5	6	3	8	5		1	12			47
10-14		1		3								1			5
5-9															
1-4															
TOTAL	136	355	483	325	125	133	229	91	89	148	229	342	337	24	3046
MEDIAN	27.1	36.9	34.1	32.7	28.2	28.9	34.1	24.6	31.6	49.4	43.6	27.4	36.4	51.2	33.3
										46.5					

On the last line of the table, the median class-size is shown for each department and for all departments, ranging from 24.6 in mechanical drawing to 51.2 in R.O.T.C. with 33.3 as the median class-size for all classes. Practically, one may say that about one-half of the classes in the high schools have more, and about one-half of the classes have less than 33 pupils.

The above tabulation also shows that there are 52 classes with less than 20 pupils, and 385 classes having from 20 to 24 pupils. These small classes are distributed among the various departments as shown in Table II, following.

TABLE II
Small Classes by Departments

Department	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Academic		
English	1	28
Social Science	-	14
Mathematics	3	22
Language	7	46
Science	13	89
Total Academic	24	199
Non-Academic		
Commercial	2	20
Industrial Arts	6	8
Household Arts	5	28
Art	1	49
Mechanical Drawing	8	40
Music	5	24
Physical Education	1	15
R.O.T.C.	-	2
Total Non-Academic	28	186
Grand Total	52	385

Table III which follows is a distribution of class size by schools.

TABLE III
Class Size by Schools

Class Size	Balboa	Com- merce	Gali- leo	Girls	Lowell	Mission	Poly- technic	Total
50 & over	34	19	28	1	21	36	18	157
45-49	16	29	17	3	9	11	29	114
40-44	63	76	51	24	38	71	65	388
35-39	113	114	118	38	61	97	82	623
30-34	104	112	134	50	91	126	101	718
25-29	110	49	105	72	89	67	117	609
20-24	33	23	53	90	81	45	60	385
15-19	2		11	16		3	15	47
10-14			2	2			1	5
5- 9								
1- 4								
TOTAL	475	422	519	296	390	456	488	3046
MEDIAN	34.4	36.1	33.3	27.7	31.3	34.4	32.5	33.3

On the last line of the above table is shown the median class size for each school, ranging from 27.7 at Girls to 36.1 at Commerce.

TABLE IV

The 52 classes with less than 20 pupils and the 385 classes having from 20 to 24 pupils are distributed by schools as follows in Table IV. The classes of the 7th and 8th grades at Girls High School are included in this study.

Small Classes by Schools

SCHOOL	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Balboa	2	33
Commerce	--	23
Galileo	13	53
Girls	18	90
Lowell	--	81
Mission	3	45
Polytechnic	16	60
TOTAL	52	385

TABLE V

Table V is a tabulation showing the number of classes for each department, in academic departments, in commercial departments, in non-academic departments excluding commercial classes, in physical education, and in the total of all classes by schools.

Number of Classes in Each Department - by Schools

Department	Balboa	Com- merce	Gal- ileo	Girls	Low- ell	Mis- sion	Poly- technic	TOTAL
English	80	68	77	44	71	69	74	483
Social Science	47	44	50	24	57	65	50	337
Mathematics	33	25	51	21	34	31	34	229
Modern Language	51	39	62	39	66	28	40	325
Science	44	33	87	18	69	40	51	342
Total Academic	255	209	327	146	297	233	249	1716
Commercial	54	101	52	28	11	68	41	355
Industrial Arts	29	--	29	--	--	35	40	133
Household Arts	31	17	11	38	--	12	16	125
Art	16	12	12	28	18	17	33	136
Mech. Drawing	12	8	17	--	6	18	30	91
Music	20	9	6	11	14	11	18	89
P.O.T.C.	4	4	4	--	4	3	5	24
Total Non- Academic	166	151	131	105	53	164	183	953
Physical Ed.	54	62	61	45	40	59	56	377
GRAND TOTAL	475	422	519	296	390	456	488	3046

TABLE VI

Table VI is a similar tabulation, showing the median class-size for each department in academic departments, in commercial departments, in non-academic departments, excluding commercial, in physical education, and in total of all classes by schools.

Median Class-Size by Schools and by Departments
Fall Term - 1933-1934

Department	Balboa	Com- merce	Gal- ileo	Girls	Low- ell	Mis- sion	Poly- technic	TOTAL
English	34.6	36.0	35.5	28.4	32.8	33.2	35.0	34.1
Social Science	37.3	37.0	36.5	34.2	32.9	37.6	38.0	36.4
Mathematics	37.0	32.2	34.6	29.5	35.5	32.2	34.5	34.1
Modern Lan- guage & Latin	35.4	33.8	34.5	25.8	31.3	33.3	32.5	32.7
Science	25.3	32.1	25.7	24.3	25.7	26.5	30.1	27.4
Academic Median	34.8	34.8	33.0	28.2	31.1	33.1	34.0	33.0
Commercial	37.7	40.7	31.7	28.3	37.5	37.6	37.5	36.9
Industrial Arts	27.8	---	30.1	----	----	32.3	26.4	28.9
Household Arts	27.3	33.5	30.5	23.6	----	38.7	28.5	28.2
Art	30.8	29.1	30.0	22.9	23.5	33.5	27.3	27.1
Mech. Drawing	29.1	23.4	24.6	----	22.5	25.9	23.4	24.6
Music	27.5	32.5	37.5	32.7	26.2	47.5	30.0	31.6
R.O.T.C.	45.0	51.6	51.6	----	51.6	52.5	50.8	51.2
Non-Academic Median	29.6	37.7	31.8	24.3	25.2	34.2	27.7	30.5
Physical Edu- cation	50.9	42.5	47.5	36.9	54.2	48.6	45.3	46.5
MEDIAN FOR ALL	34.4	36.1	33.3	27.7	31.3	34.4	32.5	33.3

TABLE VII*

A ranking of schools according to median class-size in academic classes, non-academic classes, in commercial classes, in physical education, and in all classes is shown by Table VII which follows.

Academic			Non-Academic		
School	Median Class Size	Rank	School	Median Class Size	Rank
Balboa	34.8	1	Commerce	37.7	1
Commerce	34.8	1	Mission	34.2	2
Polytechnic	34.0	3	Galileo	31.8	3
Mission	33.1	4	Balboa	29.6	4
Galileo	33.0	5	Polytechnic	27.7	5
Lowell	31.1	6	Lowell	25.2	6
Girls	28.2	7	Girls	24.3	7
Average	33.0		Average	30.5	

Commercial			Physical Education		
Commerce	40.7	1	Lowell	54.2	1
Balboa	37.7	2	Balboa	50.9	2
Mission	37.6	3	Mission	48.6	3
Lowell	37.5	4	Galileo	47.5	4
Polytechnic	37.5	4	Polytechnic	45.3	5
Galileo	31.7	6	Commerce	40.7	6
Girls	28.3	7	Girls	36.9	7
Average	36.9		Average	46.5	

Total in All Classes

School	Median Class Size	Rank
Commerce	36.1	1
Balboa	34.4	2
Mission	34.4	2
Galileo	33.3	4
Polytechnic	32.5	5
Lowell	31.3	6
Girls	27.7	7
Average	33.3	

*Note: In making comparisons, the type and character of the school must be considered. The number of classes in the departments of each school (see Table V) is also a factor.

TABLE VIII

Table VIII shows the median class-size by departments in San Francisco for six terms: Spring, 1930-31; Fall, 1931-32; Spring, 1931-32; Fall, 1932-33; Spring, 1932-33, and Fall 1933-34.

DEPARTMENT	San Francisco					
	Spring 1930-31	Fall 1931-32	Spring 1931-32	Fall 1932-33	Spring 1932-33	Fall 1933-34
Art	26.1	26.0	26.6	28.4	28.4	27.1
Commercial	35.4	34.4	33.3	37.3	37.5	36.9
English	31.6	32.6	32.5	33.5	34.2	34.1
Language	29.6*	30.2**	30.9**	31.7**	32.1**	32.7**
Household Arts	27.6	25.9	26.6	29.0	29.0	28.2
Industrial Arts	25.5	25.9	27.1	26.9	27.9	28.9
Mathematics	32.3	32.1	32.3	34.1	35.3	34.1
Mech. Drawing	24.8	24.1	25.0	26.2	26.9	24.6
Music	29.3	31.7	30.0	32.9	33.3	31.6
Physical Ed.	43.4	42.5	42.8	46.1	45.9	46.5
Science	26.7	26.2	26.9	27.9	27.9	27.4
Social Science	35.5	34.9	35.0	37.4	37.5	36.4
R.O.T.C.	--	--	--	47.5	50.2	51.2
Median of all Departments	31.4	31.3	31.5	33.4	33.8	33.3

* Does not include Latin

**Includes Latin

TABLE IX

If all the high school classes were distributed in five class-sizes; namely, classes with less than 20 pupils, 20 to 24 pupils, 25 to 29 pupils, 30 to 34 pupils, and more than 35 pupils, they would appear as follows in Tables IX and X. Table IX shows the distribution by number of classes, by schools; and Table X shows the percentage of classes in each of the five class-sizes by schools.

Number of Classes in Each Class-Size

Size of Class	Balboa	Com- merce	Gal- ileo	Girls	Lowell	Mission	Poly- technic	TOTAL
35 or over	226	238	214	66	129	215	194	1282
30-34	104	112	134	50	91	126	101	718
25-29	110	49	105	72	89	67	117	609
20-24	33	23	53	90	81	45	60	385
Less than 20	2	--	13	18	--	3	16	52
TOTAL	475	422	519	296	390	456	488	3046

TABLE X
Percentage of Classes in Each Class-Size

Size of Class	Balboa	Com- merce	Gal- ileo	Girls	Lowell	Mission	Poly- technic	TOTAL
35 or over	48.0	57.0	41.0	22.0	33.0	47.0	40.0	42.09
30-34	22.0	27.0	26.0	17.0	23.0	28.0	21.0	23.57
25-29	23.0	11.0	20.0	24.0	23.0	15.0	24.0	19.99
20-24	7.0	5.0	10.0	31.0	21.0	10.0	12.0	12.64
Less than 20	--	--	3.0	6.0	--	--	3.0	1.71
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

The following figures show the comparative percentages in the six class-sizes for the spring term, 1930-1931; the fall term, 1931-1932; the spring term, 1931-1932; the fall term, 1932-1933; the spring term, 1932-1933, and the fall term 1933-1934.

Size of Class	All H.S. Classes Spring Term 1930-31	All H.S. Classes Fall Term 1931-32	All H.S. Classes Spring Term 1931-32	All H.S. Classes Fall Term 1932-33	All H.S. Classes Spring Term 1932-33	All H.S. Classes Fall Term 1933-34
35 or over	33.10	33.40	33.00	43.00	44.93	42.09
30-34	23.20	22.60	24.50	22.20	21.52	23.57
25-29	23.00	23.60	24.20	22.40	22.22	19.99
20-24	17.40	18.00	16.50	11.10	10.49	12.64
Less than 20	3.30	2.40	1.80	1.30	.84	1.71

Class Size - San Francisco Continuation School

The following table shows the distribution of classes in the San Francisco Continuation School by departments. Each class listed in the distribution meets once per week, the length of the period being two clock hours.

TABLE XI
Class Size - San Francisco Continuation School

Class Size	Com- mer- cial	Eng- lish	Home Econ- omics	Math- emat- ics	Social Sci- ence	Tech- nical Subjects	Total	Per Cent
50 or over	5	3					8)	
45-49	6			1	2	1	10)	
40-44	18	5	2	1			26)--	19.0
35-39	20	6	2	4	3	4	39)	
30-34	20	14	6	3	6	6	55	13.0
25-29	17	14	15	2	7	18	73	17.0
20-24	44	52	20	14	20	31	181	41.0
15-19	4	10	5	3	1	5	28)	
10-14	3	4	4		3	3	17)--	10.0
5-9							-)	
1-4							-)	
Total	137	108	54	28	42	68	437	100.0
Median	30.1	23.8	24.5	23.9	24.2	24.1	24.2	

There are 45 classes with an enrollment of less than 20 pupils, distributed among the departments as follows:

Commercial -----	7
English -----	14
Home Economics -----	9
Mathematics -----	3
Social Science -----	4
Technical Subjects -----	8
Total -----	45

The median size of all classes is 24.2 ranging from 30.1 in commercial classes to 23.7 in English. The median size of all classes for the fall term, 1932-33, was 26.0; for the spring term 1932-33, was 32.0; and for the fall term 1933-34 is 24.2.

TABLE XII

The following tabulation shows the percentage of classes of several sizes for the spring term, 1930-31; the fall term, 1931-32; the spring term, 1931-32; the fall term, 1932-33; the spring term, 1932-33, and the fall term 1933-34.

Size of Class	Per Cent of All Classes Continuation School					
	Spring 1930-31	Fall 1931-32	Spring 1931-32	Fall 1932-33	Spring 1932-33	Fall 1933-34
35 or over	12.30	13.50	35.50	22.70	41.00	19.00
30-34	12.10	10.70	15.70	15.10	15.00	13.00
25-29	16.00	22.30	15.90	15.60	19.00	17.00
20-24	52.30	26.50	27.30	44.90	22.00	41.00
Less than 20	6.70	17.00	5.60	1.70	3.00	10.00



(City & County) Board of Education.
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CLASS SIZE
SAN FRANCISCO JUNIOR HIGH SCHOOLS

Fall Term - 1933

Bulletin No. 57
October-1933

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CLASS SIZE - SAN FRANCISCO JUNIOR HIGH SCHOOLS
Fall Term, 1933

The class size summaries which follow should be viewed in the light of the pupil-teacher ratio plan submitted by Deputy Superintendent Walter C. Nolan, and adopted by the Board of Education June 7, 1932. This plan now in its second year of practice follows:

Assignment of Credentialed Personnel to Junior
High Schools

1. The basic enrollment figure to be used for determining the number of credentialed personnel for any term shall be the end of the month enrollment of the first month of the preceding term. In the event of exceptional increases or decreases at the beginning of a term, adjustments shall then be made according to the ratio stated below.
2. The ratio of pupils to teachers for the school year 1932-33 shall be as follows, with the proviso that it be reduced to the ratio in effect during the year 1931-32 as soon as the present emergency ceases.
 - (a) In schools with an enrollment of 1500 pupils and above, the maximum number of teachers shall be determined by dividing the total enrollment by 32, plus an allowance of 3 in administration and 1 in library service.
 - (b) In schools with an enrollment of 1100 pupils to 1499 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 31, plus an allowance of 3 in administration and 1 in library service.
 - (c) In schools with an enrollment of 500 pupils to 1099 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 27, plus an allowance of 2 in administration and 1 in library service.
 - (d) In schools with an enrollment of 499 pupils and below, the maximum number of teachers shall be determined by dividing the total enrollment by 26, plus an allowance of a maximum of 2 in administration and 1 in library service.
3. It is recommended that the principals be authorized to operate these ratios as major program restrictions without other or further program restrictions.

4. The rule for determining the number of credentialed personnel shall be as follows:

The number of teachers equals the enrollment divided by the ratio. If the quotient is fractional, use the nearest whole number.

5. All teachers shall have assigned duties for six periods per day. The minimum number of classes shall be five per day.

Table I, which follows, shows the Fall 1933 enrollment with the actual number of teachers employed as well as the number allowed by Board rule. Exclusive of administrative officers and librarians 354 teachers are employed. According to the ratio adopted by the Board, 359 are allowed.

Table I
Pupil - Teacher Ratio
Junior High Schools
Fall 1933

School	Enrollment Fall Term 1933	No. of Teachers Fall 1933		Pupils Per Teacher	Board's Adopted Ratio	Adminis- trative Officers
		Actually Employed	Allowed by Bd.Rul.			
Aptos	1368	44	44	31	31	4
D.Webster	447	17	17	26	26	3
Everett	1803	*55(1)	56	33	32	4
Francisco	1189	39	38	30	31	4
Horace Mann	1274	41	41	31	31	4
James Lick	561	18 1/3	21	31	27	3
John Swett	667	23 2/3	25	28	27	3
Portola	727	26	27	28	27	3
Presidio	1611	*50(1)	50	32	32	4
Roosevelt	1254	40	40	31	31	4
Total	10,901	*354(2)	359	30.8	30.4	36

* Special teachers of sight conservation and lip reading.

The following summaries are based on teachers' programs during the first month of the Fall 1933 term.

Table II shows the distribution of class size by departments. The total number of classes is 1864 with a median class size of 36.5 for all departments. The class size ranges from a median of 25.4 in Home Economics to 43.9 in Physical Education.

Table II

Number of Classes and Class Size by Departments
Fall 1933

Class Size	Art	Commerce	English	Home Economics	Industrial Arts	Languages	Mathematics	Music	Physical Education	Science	Social Science	Total
50+			8				10	27	56		8	109
45-49		1	53		1	5	46	15	18	18	44	201
40-44		14	109	1		8	76	22	29	45	122	426
35-39		19	62	1	3	14	45	10	28	37	60	279
30-34	21	17	29	10	35	16	23	8	20	19	29	227
25-29	38	15	11	65	77	23	12	6	3	8	10	268
20-24	42	3	16	57	108	27	5	21	7	6	4	296
15-19	3	4	1	7	17	5	2	4		1		44
10-14		1		1	5			4				11
5-9				1	1			1				3
Total	104	74	289	143	247	98	219	118	161	134	277	1864
Median	25.9	34.1	41.2	25.4	24.6	28.7	41.4	41.2	43.9	38.8	41.4	36.5

Table III compares the median class size by departments with that of previous semesters.

Table III

Median Class Size by Departments
Spring 1932 - Fall 1932 - Spring 1933 - Fall 1933

Department	Spring 1932	Fall 1932	Spring 1933	Fall 1933
Art	24.6	26.0	24.3	25.9
Commerce	36.2	34.1	36.1	34.1
English	39.0	39.7	39.5	41.2
Home Economics	22.4	23.3	21.8	25.4
Industrial Arts	23.5	24.5	24.0	24.6
Languages	33.5	33.6	33.6	28.7
Mathematics	39.1	40.5	40.6	41.4
Music	41.6	40.5	40.0	41.2
Physical Education	41.8	42.3	41.6	43.9
Science	39.8	40.1	41.0	38.8
Social Science	39.5	40.7	41.0	41.4
Median of Totals	36.1	35.7	35.9	36.5

Table III indicates that the median of all classes has been fairly constant for the four semesters, fluctuating less than one pupil. There have been slight increases in English, Home Economics, Industrial Arts, Mathematics, Physical Education and Social Studies, and slight decreases in Commerce, Science and Languages. These decreases are due to the limiting of electives for pupils of the seventh and eighth grades.

While the classes in general show little variation, there is a conspicuous decrease in the number of small classes as shown by Table IV below. Since the spring term of 1932, classes having fewer than twenty pupils have decreased as follows: Spring 1932 - 157, Fall 1932 - 134, Spring 1933 - 100, Fall 1933 - 58. Of the 1864 classes only 58 have fewer than 20 pupils. An equally significant reduction is noticeable in classes with enrollments of 20 to 24, inclusive.

Table IV

Small Classes by Schools
Spring 1932 - Fall 1932 - Spring 1933 - Fall 1933

School	Less than 20 pupils				20 to 24 pupils				Less than 25 pupils			
	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1932	Fall 1932	Spring 1933	Fall 1933
Aptos	19	12	8	8	38	29	38	22	57	41	46	30
D. Webster	10	6	3	3	20	16	29	16	30	22	32	19
Everett	5	6	4	4	46	43	39	34	51	49	43	38
Francisco	15	8	14	5	19	54	43	35	34	62	57	40
H. Mann	11	14	1	2	54	60	61	55	65	74	62	57
James Lick	21	16	13	-	25	27	20	22	46	43	33	22
John Swett	20	17	11	3	21	27	15	40	41	44	26	43
Portola	27	33	21	20	44	44	39	24	71	77	60	44
Presidio	23	15	19	10	46	55	37	32	69	70	56	42
Roosevelt	6	7	6	3	31	33	28	16	37	40	34	19
Total	157	134	100	58	344	388	349	296	501	522	449	354



Table V shows the number of classes and class sizes by schools. The median class size ranges from 29.7 in Portola to 40.1 in Presidio. It is expected that the schools having small enrollments will have lower medians.

Table V

Number of Classes and Class Size by Schools
Fall 1933

	Aptos	D. Webster	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	Total
50+	5		25	14	9	6	1	12	25	12	109
45-49	44	11	20	7	40	8	2	17	44	8	201
40-44	52	12	66	40	52	14	37	16	62	75	426
35-39	38	12	52	52	25	17	18	14	21	30	279
30-34	30	16	57	22	12	23	15	6	18	28	227
25-29	24	18	47	38	19	9	9	24	47	33	268
20-24	22	16	34	35	55	22	40	24	32	16	296
15-19	7	2	4	2	2		2	15	10		44
10-14	1	1		2			1	4		2	11
5-9				1				1		1	3
Totals	223	88	305	213	214	99	125	133	259	205	1864
Medians	39.3	32.2	36.1	35.6	38.8	34.2	33.5	29.7	40.1	38.8	36.5

Table VI compares the median class size in the various junior high schools for the past four semesters.

Table VI

Median Class Size by Schools
Spring 1932 - Fall 1932 - Spring 1933 - Fall 1933

School	Spring 1932	Fall 1932	Spring 1933	Fall 1933
Aptos	39.7	39.5	39.4	39.3
Daniel Webster	34.5	31.6	31.6	32.2
Everett	35.8	36.4	36.0	36.1
Francisco	37.4	35.0	34.9	35.6
Horace Mann	37.9	37.9	38.6	38.8
James Lick	28.1	31.5	34.1	34.2
John Swett	31.6	30.5	32.6	33.5
Portola	30.1	28.3	30.7	29.7
Presidio	39.9	40.0	39.7	40.1
Roosevelt	36.3	36.0	36.2	38.8
Total	36.1	35.7	35.9	36.5

Table VI brings out the fact that the median class size of the individual junior high schools has varied but little during the past four semesters. The most significant increases in class size are shown in James Lick, John Swett and Roosevelt.

Table VII is a recapitulation of the preceding tables in that it shows the median class size by both schools and departments.

Table VII

Median Class Size by Schools and Departments

Department	Aptos	D. Webster	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	Total
Art	26.0	26.0	30.5	24.1	22.0	20.8	22.9	25.8	26.0	28.3	28.6
Commerce	31.6	30.0	34.0	32.5	35.0	36.0	37.0	27.0	37.0	40.6	34.2
English	42.0	33.8	39.9	37.3	43.6	35.6	40.5	43.3	43.7	41.5	41.3
Home Econ.	29.4	25.0	26.5	24.2	23.1	23.6	23.7	26.1	25.7	27.0	25.4
Indus.Arts	26.6	22.5	27.2	27.5	23.0	24.4	24.5	21.0	26.6	26.0	24.6
Languages	28.3		23.0	32.5	26.5	37.0	27.0	40.0	28.7	34.0	28.7
Math.	43.2	34.1	38.6	37.9	44.2	40.0	43.3	43.3	45.2	41.6	41.4
Music	43.0	36.2	45.0	40.7	45.5	40.0	43.7	28.7	40.0	53.4	41.7
Phys.Ed.	42.5	38.3	52.0	50.5	42.5	47.0	38.0	42.5	45.7	37.5	44.3
Science	42.0	40.0	38.1	38.4	34.5	38.3	35.0	41.6	40.2	38.1	38.8
Social Sci.	41.8	39.2	40.5	37.2	43.4	36.2	41.0	42.5	44.4	42.0	41.4
Median of Totals	39.3	32.2	36.1	35.6	38.8	34.2	33.5	29.7	40.1	38.8	36.5

This study gives evidence to the effect that the junior high school administration is to be commended upon the organization it has maintained in the face of existing emergencies. To have reduced the number of small classes without increasing the class size beyond teaching efficiency is a condition achieved only through the careful and thoughtful cooperation of the principals of each junior high school.

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Bulletin # 59

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AGE AND ABILITY OF JUNIOR HIGH SCHOOL PUPILS
END OF SPRING TERM, 1933

Bulletin No. 59
November-1933

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November 1, 1933

AGE AND ABILITY OF JUNIOR HIGH SCHOOL PUPILS
END OF SPRING TERM, 1933

The summaries which follow are based on the results of the Terman Group Test of Mental Ability administered to pupils upon leaving the high sixth grade of elementary school, and the high ninth grade of junior high school at the close of the Spring, 1933 term. This is a part of the survey given semi-annually in the San Francisco Public Schools and serves an invaluable purpose in the placement of pupils and the adaptation of curricular material.

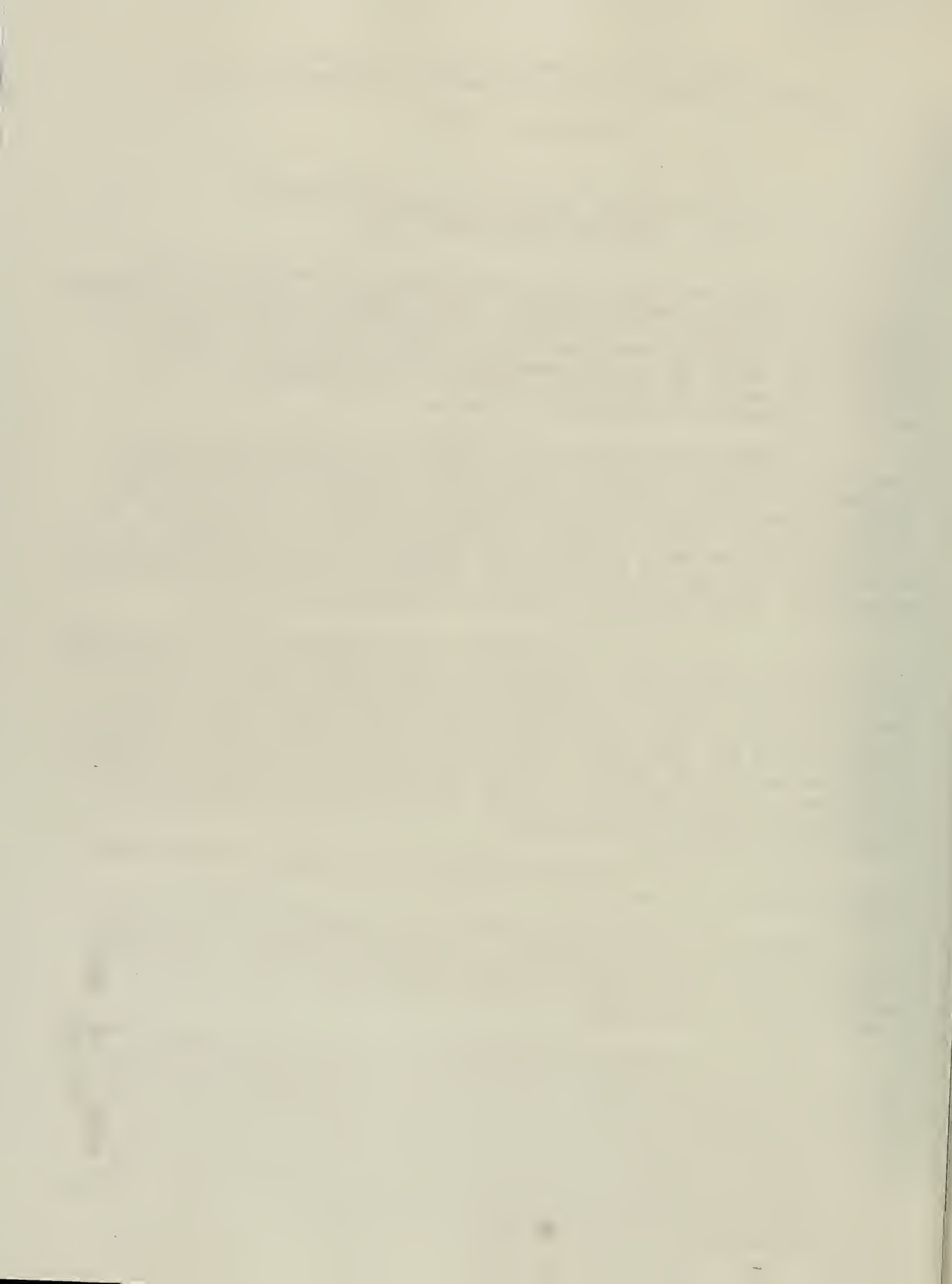
The mental test given to the pupils at the close of the high sixth grade is used together with cumulative test data and teachers' judgment as a basis for the formation of homogeneous instructional groups in junior high schools. It is the consensus of opinion that pupil progress is greater when instructional groups are organized on the basis of like ages, ability, and achievement. The practice of organizing these groups prior to the opening of school has met with the approval of principals and teachers. Through this method of organization, delay in the beginning of class instruction is averted.

Table I shows the chronological age distribution of pupils leaving the high sixth grade. It must be kept in mind that the average age of these pupils will be approximately three months higher at the opening of school in August. The body of the Table shows the complete range of ages for each junior high school and for the total. The footings indicate the median for each school and the range of the middle fifty per cent or Q^1 and Q^3 . While the median for the city as a whole is 12 years (approximately 12 years and 3 months in August) there is a wide range of ages due to the nature of the residential district from which each school draws its pupils.

Table II shows the mental ability of the pupils of each junior high school and for the city as a whole.

Pupils enter junior high school with mental abilities ranging from 9 years 6 months to 17 years, or from the ability required for success in the fourth grade to senior high school level. The median mental ability of the highest junior high school exceeds that of the lowest by more than a year.

Table III compares the chronological ages of the various schools with their respective mental abilities. It will be observed that an inverse ratio exists between the chronological and the mental age medians in these schools. Aptos, Presidio, and Roosevelt with the lowest chronological ages, have the highest mental age medians. In other words, the greatest amount of acceleration is found in these three schools. On the other hand, Daniel Webster and Francisco with the highest chronological age medians, have the lowest mental ages. This is due to the large number of children from foreign homes making up the enrollment of these two junior high schools.



The fact that the median chronological age for the city as a whole is 12 years, and the median mental age is 12 years 10 months, indicates that there is a greater number of children of high ability, or higher than average ability, than there are children of low ability in the junior high schools. As the junior high school organization becomes city-wide the norms will become more representative. At present, there are still eight grade elementary schools existing in the city which contribute directly to senior high schools.

Tables IV and V treat the ages and abilities of pupils leaving the high ninth grade of junior high school in the same manner that Tables I and II deal with the high sixth grade data. Again a full year's range exists between the median of the lowest school in the chronological age and that of the highest school. The ages of individuals within the various schools range from 12 to over 17 years. Table V which gives the mental ability of these pupils shows even a wider range. It is to be expected that the schools showing extreme acceleration and retardation are the same as shown in the tables describing the pupils entering junior high schools.

Table VI which compares the chronological and the mental ability of pupils leaving the high ninth grade appears to conflict with Table IV which gives the same data for pupils entering the junior high school. This discrepancy is seen in the increased number of schools which appear to fall below the chronological age median in their mental ability. In the case of pupils leaving the high ninth grade the chronological age median for the total of all junior high schools is 15 years, while that for the mental ages is 14 years 5 months. This does not mean that the population of the junior high school has changed but that in the case of those schools having over-age pupils the limit of mental ability is probably reached in the case of the oldest 25 per cent at an earlier date, resulting in lowering the mental age median for the entire city.

The foregoing tables will enable each junior high school administrator to know not only the ability of the pupils within his own school but their abilities with respect to those in the other junior high schools of the city. This knowledge should be of great value to him in the organization of his classes and the application of the material and method presented to the pupils. The wide range of both chronological age and mental ability calls attention to the need for homogeneous instructional groups as well as a highly differentiated curriculum.

This bulletin makes no attempt to suggest policies of procedures. It merely calls attention to the nature of the variability and the extent to which it exists. Educational policies, modification and enrichment of curriculum should, however, be based upon such a knowledge.

TABLE I

CHRONOLOGICAL AGE OF PUPILS ENTERING LOW SEVENTH GRADE OF JUNIOR HIGH SCHOOL

MAY - 1933

Chronological Age	Aptos	Daniel Webster	Everett	Francis-co	Horace Mann	James Lick	John Swett	Portola	Presidio	Roosevelt	Total
17-6 to 17-11+			1	11							11
17-0 to 17-5			1								1
16-6 to 16-11			1	2							3
16-0 to 16-5			1	2							3
15-6 to 15-11		1	2	2							6
15-0 to 15-5			3	6		1				1	11
14-6 to 14-11		3	4	3	5		2	1		1	17
14-0 to 14-5		3	10	8	3	1	7	3	1	5	37
13-6 to 13-11	4	8	10	16	9	2	12	10	5	3	68
13-0 to 13-5	5	11	10	19	17	7	21	21	13	19	144
12-6 to 12-11	9	11	27	33	38	9	39	24	23	29	246
12-0 to 12-5	18	16	43	52	44	23	52	31	55	51	413
11-6 to 11-11	50	28	59	44	51	27	15	17	107	80	591
11-0 to 11-5	89	5	25	20	24	6	4	1	63	37	256
10-6 to 10-11	44	1	3	2	8			1	7	14	48
10-0 to 10-5	9		1	1	2			1	1		8
Total	229	87	272	221	201	76	152	109	275	241	1863
Q1	11-5.7	11-8.9	11-8.3	11-9.9	11-7.4	11-8.5	11-7.7	11-6.7	11-5.3	11-6.2	11-7.1
Median	11-9.6	12-3.1	12-2.0	12-4.5	12-1.6	12-0.8	12-0.3	12-0.6	11-9.2	11-10.7	12-0
Q3	12-8.9	13-1.8	12-10.2	13-3.8	12-8.9	12-6.0	12-6.7	12-7.7	12-2.1	12-5.3	12-7.5

TABLE II

MENTAL AGE OF PUPILS ENTERING LOW SEVENTH GRADE OF JUNIOR HIGH SCHOOL

TERMAN A - MAY 1933

Mental Age	Aptos	Daniel Webster	Everett	Francis-co	Horace Mann	James Lick	John Swett	Portola	Presidio	Roosevelt	Total
16-0 to 16-5 +											
17-6 to 17-11											1
17-0 to 17-5											2
16-6 to 16-11											5
16-0 to 16-5											17
15-6 to 15-11											38
15-0 to 15-5											86
14-6 to 14-11											160
14-0 to 14-5											227
13-6 to 13-11											328
13-0 to 13-5											374
12-6 to 12-11											254
12-0 to 12-5											234
11-6 to 11-11											101
11-0 to 11-5											26
10-6 to 10-11											7
10-0 to 10-5											3
9-6 to 9-11											
Total	229	87	272	221	201	76	152	109	275	241	1863
Q1	12-7.8	11-6.9	12-2.0	11-7.6	11-11.8	12-0.6	12-6.7	11-8.5	12-7.6	12-5.5	11-7.7
Median	13-2.9	12-1.1	12-11.2	12-2.3	12-10.1	12-7.0	12-11.9	12-4.5	13-2.6	13-1.8	12-10.4
Q3	14-0.7	12-10.4	13-8.9	12-9.4	13-5.5	13-1.7	13-9.2	13-0.0	13-10.3	13-10.3	13-7.3

TABLE III

CHRONOLOGICAL AGE AND MENTAL ABILITY OF PUPILS
LEAVING THE HIGH SIXTH GRADE

END OF SPRING TERM, 1933

School	Chronological Age			Mental Age		
	Q1	Md.	Q3	Q1	Md.	Q3
Aptos	11-5.7	11-9.6	12-8.9	12-7.8	13-2.9	14-0.7
Daniel Webster	11-8.9	12-3.1	13-1.8	11-6.9	12-1.1	12-10.4
Everett	11-8.3	12-2.0	12-10.2	12-2.0	12-11.2	13-8.9
Francisco	11-9.9	12-4.5	13-3.8	11-7.6	12-2.3	12-9.4
Horace Mann	11-7.4	12-1.6	12-8.9	11-11.8	12-10.1	13-5.5
James Lick	11-8.5	12-0.8	12-6.0	12-0.6	12-7.0	13-1.7
John Swett	11-7.7	12-0.3	12-6.7	12-6.7	12-11.9	13-9.2
Portola	11-6.7	12-0.6	12-7.7	11-5.5	12-4.5	13-0.0
Presidio	11-5.3	11-9.2	12-2.1	12-7.6	13-2.6	13-10.3
Roosevelt	11-6.2	11-10.7	12-2.1	12-5.5	13-1.8	13-10.3
Median of Total	11-7.1	12-0	12-7.5	11-7.7	12-10.4	13-7.3

TABLE IV

CHRONOLOGICAL AGE OF PUPILS LEAVING THE HIGH NINTH GRADE OF JUNIOR HIGH SCHOOL

MAY - 1933

Chronological Age	Aptos	Daniel Webster	Everett	Francis-co	Horace Mann	James Lick	John Swett	Portola	Presidio	Roosevelt	Total
17-6 to 17-11+	2	5	3	15	2		6	2	1	2	36
17-0 to 17-5	2	5	8	15	6	2	3	9	1	3	54
16-6 to 16-11	6	5	9	22	20	3	7	14	2	6	94
16-0 to 16-5	9	7	37	31	36	5	7	19	7	17	175
15-6 to 15-11	31	11	78	35	47	13	13	24	29	32	313
15-0 to 15-5	32	15	105	32	58	21	23	49	53	49	437
14-6 to 14-11	77	14	127	30	54	26	17	47	73	97	562
14-0 to 14-5	50	89	74	8	22	8	10	20	26	46	272
13-6 to 13-11	6	1	21	6	11	2	3	9	6	20	84
13-0 to 13-5	3		11	1	4	1		1	1	4	27
12-6 to 12-11	1										2
12-0 to 12-5	1										1
11-6 to 11-11											
11-0 to 11-5											
10-6 to 10-11											
10-0 to 10-5											
Total	220	71	473	195	260	81	89	194	199	277	2059
Q ₁	14-4.8	14-8.9	14-6.0	15-0.0	14-8.6	14-7.6	14-8.8	14-7.8	14-5.9	14-5.2	14-6.9
Median	14-9.3	15-4.5	14-11.7	15-9.0	15-3.5	15-0.5	15-2.8	15-1.9	14-10.9	14-8.4	15-0.1
Q ₃	15-4.6	16-3.1	15-6.8	16-6.4	16-0.0	15-7.7	16-0.1	15-10.4	15-4.4	15-3.1	15-8.5

TABLE V

MENTAL ABILITY OF PUPILS LEAVING THE HIGH NINTH GRADE OF JUNIOR HIGH SCHOOL

TERMAN B - MAY 1933

Mental Age	Aptos	Daniel Webster	Everett	Francis co	Horace Mann	James Lick	John Swett	Portola	Presidio	Roosevelt	Total
16-0 to 16-5+	4		2		1	1			4	1	13
17-6 to 17-11	4	2	10	1	4	1	2		18	7	49
17-0 to 17-5	13	1	22	1	7	1	5	1	20	7	78
16-6 to 16-11	27	2	15	5	11	6	2	3	27	14	112
16-0 to 16-5	25		24	3	12	8	4	3	27	26	132
15-6 to 15-11	32	2	50	3	16	8	10	8	42	28	199
15-0 to 15-5	22	7	61	14	23	7	16	8	32	26	216
14-6 to 14-11	26	10	55	13	41	8	10	16	30	22	231
14-0 to 14-5	23	6	56	22	35	9	11	21	21	22	226
13-6 to 13-11	21	10	56	23	22	6	12	28	22	15	215
13-0 to 13-5	12	12	33	32	26	12	6	23	17	13	186
12-6 to 12-11	5	9	41	26	18	5	4	25	7	10	150
12-0 to 12-5	2	7	46	24	21	5	4	25	6	5	145
11-6 to 11-11	2	2	1	21	15	2	1	16	4	2	65
11-0 to 11-5	2	1		6	5	1	1	12		1	29
10-6 to 10-11				1	2	1	2	4			10
10-0 to 10-5			1		1			1			3
Total	220	71	473	195	260	81	89	194	277	199	2059
Q1	14-2.5	12-10.6	13-5.0	12-4.7	13-0	13-2.6	13-8.1	12-3.2	14-3.2	14-0.6	13-2.1
Median	15-2.1	13-8.2	14-5.8	13-3.5	14-2.9	14-5.2	14-8.2	13-3.1	15-6.0	15-1.7	14-5.5
Q3	16-3.8	14-9.1	15-6.0	14-3.1	15-1.8	15-8.5	15-5.9	14-2.8	16-6.0	16-0.1	15-7.5

TABLE VI

CHRONOLOGICAL AGE AND MENTAL ABILITY OF PUPILS
LEAVING THE HIGH NINTH GRADE

END OF SPRING TERM, 1933

School	Chronological Age			Mental Age		
	Q1	Md.	Q3	Q1	Md.	Q3
Aptos	14-4.8	14-9.3	15-4.6	14-2.5	15-2.1	16-3.8
Daniel Webster	14-8.9	15-4.5	16-3.1	12-10.6	13-8.2	14-9.1
Everett	14-6.0	14-11.7	15-6.8	13-5.0	14-5.8	15-6.0
Francisco	15-0.0	15-9.0	16-6.4	12-4.7	13-3.5	14-3.1
Horace Mann	14-8.6	15-3.5	16-0.0	13-0.0	14-2.9	15-1.8
James Lick	14-7.6	15-0.5	15-7.7	13-2.6	14-5.2	15-8.5
John Swett	14-8.8	15-2.8	16-0.1	13-8.1	14-8.2	15-5.9
Portola	14-7.8	15-1.9	15-11.4	12-3.2	13-3.1	14-2.8
Presidio	14-5.2	14-8.4	15-3.1	14-3.2	15-6.0	16-6.0
Roosevelt	14-5.9	14-10.9	15-4.4	14-0.6	15-1.7	16-0.1
Median of Total	14-6.9	15-0.1	15-8.5	13-2.1	14-5.5	15-7.5

School Dept. Board of Education
SAN FRANCISCO PUBLIC SCHOOLS
BUREAU OF RESEARCH, ADULT EDUCATION, AND EVENING SCHOOLS
Civic Auditorium, Polk and Grove Streets

PROMOTION REPORT FOR SAN FRANCISCO ELEMENTARY SCHOOLS
SPRING TERM, 1934.

Bulletin No. 64
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PROMOTION REPORT FOR ELEMENTARY SCHOOLS
SPRING TERM, 1934.

The tables which follow present the data relative to promotion and non-promotion in grades 1 to 8 of the San Francisco Public Elementary Schools, for the Spring Term of 1934.

In order that variations in the rate of promotions might be noted, comparative summaries covering the spring term for the past four years are given.

Table I shows that in the spring term of 1934, over 95 per cent of the pupils of the San Francisco elementary schools were promoted. The girls still exceed the boys by 2.6 per cent, but the comparative summary indicates that the difference between the promotion rate of boys and girls is slightly increasing.

Table II presents the per cent of promotions by half grades over a four-year period. The highest promotion rate is noted in the high eighth grade while the lowest is in the low first. The most conspicuous increase in the promotion rate is at end of the high first grade. The increases in promotion after leaving the high first grade are fairly constant.

Table III gives a summary of double promotions over a four-year period. The low eighth and the high eighth grades have fewer double promotions than the other grades.

Table IV refers to the junior primary only, which may be defined as a slowly moving group of low first grade pupils. Such pupils are given pre-primary training in order to gain reading readiness or to make other necessary adjustments before entering upon the regular first grade curriculum. Of this group 29.5 per cent were advanced to the regular first grade during the term and made a normal promotion. Over 54 per cent were promoted after one term in junior primary and one term in the low first grade.

Table V presents complete promotion data for each half grade for the spring term 1934. This table shows the number and per cent of promotions and non-promotions for boys and girls separately, as well as the totals for each half grade.

Table VI gives complete promotion data for the spring term 1934 by schools. The rate of promotions in regular elementary schools ranges from 88.5 per cent in the Garfield school to 99.1 per cent in West Portal. The only schools promoting fewer than 90 per cent of the pupils, were the Garfield and Rincon. The schools promoting 99 to 100 per cent of their pupils were the Lafayette, and West Portal.

SUMMARY AND CONCLUSIONS.

1. In the spring term of 1934, the San Francisco elementary schools had a promotion rate of 95.3 per cent.
2. Girls continue to lead the boys in per cent of promotions, but the difference is slightly increasing.
3. Over a four-year period, the number of double promotions has decreased from 2.3 per cent to 1.1 per cent. This is a favorable trend and in keeping with the progressive policy of organizing homogeneous groups within each grade and modifying or enriching the curriculum in accordance with the ability of the group. By so doing, continuity of instruction is preserved, and social maladjustments averted.
4. The promotion rate varies from grade to grade, being lowest in the first and highest in the eighth. There are sound educational reasons for this trend, the policy of providing pupils with the fundamental tool subjects in the earlier years being most outstanding.
5. The wide difference in promotion rates of the various schools should be considered only when the factors bearing upon those schools are taken into consideration. A high or low promotion rate alone does not reflect favorably or unfavorably upon a school.

Among factors affecting the rate of promotion within a school, the most prominent are:

1. Social and environmental conditions.
2. Mental ability.
3. Physical condition.
4. Emotional factors.
5. Familiarity with English.
6. Earlier educational achievement.
7. Interest and effort.
8. Adaptability of curricular methods
and materials to pupil needs.

TABLE I.

Percent of Promotions in
Grades 1-8

(Comparative Summary)

Pupils	SPRING TERM			
	1930-31	1931-32	1932-33	1933-34
Boys	93.9	94.7	94.5	94.1
Girls	96.2	96.6	97.0	96.7
Total	95.1	95.6	95.7	95.3

TABLE II.

Percent of Promotions by
Half Grades

(Comparative Summary)

Grade	SPRING TERM			
	1930-31	1931-32	1932-33	1933-34
Low 1	88.5	88.5	90.4	91.5
High 1	91.6	93.0	94.2	93.4
Low 2	90.8	94.3	94.0	95.5
High 2	94.5	95.6	95.8	95.6
Low 3	95.1	95.3	95.4	95.1
High 3	95.4	95.9	96.1	95.9
Low 4	95.3	98.2	97.3	95.3
High 4	96.7	98.3	97.6	96.6
Low 5	94.3	97.1	96.7	96.6
High 5	97.1	98.0	97.5	96.5
Low 6	97.2	97.7	97.8	96.6
High 6	98.8	98.2	98.8	98.7
Low 7	95.5	97.5	96.8	94.4
High 7	96.8	98.2	98.4	96.8
Low 8	96.1	98.4	98.3	97.6
High 8	99.3	99.3	99.4	99.3
Total	95.1	95.6	95.7	95.3

TABLE III.

Percent of Double Promotions by
Half Grades

(Comparative Summary)

Grade	SPRING TERM			
	1930-31	1931-32	1932-33	1933-34
Low 1	2.7	2.3	1.2	1.3
High 1	2.3	2.5	.8	1.1
Low 2	2.5	1.1	.5	1.2
High 2	2.2	1.7	.6	.9
Low 3	3.1	2.7	1.2	1.5
High 3	1.9	3.0	.7	1.5
Low 4	2.7	2.6	2.6	1.3
High 4	2.6	1.6	1.6	1.3
Low 5	1.6	2.4	1.3	.9
High 5	1.3	2.1	1.2	.9
Low 6	2.4	1.7	2.5	1.7
High 6	2.0	1.0	1.0	1.0
Low 7	2.8	3.7	1.3	.8
High 7	2.6	4.1	3.2	1.2
Low 8	.9	.4	.8	.3
High 8	.9	1.6	1.1	.2
Total	2.3	2.1	1.3	1.1

TABLE IV.

Promotions and Non-Promotions in Junior Primary

Spring Term, 1933-34.

Junior Primary Pupils:	Number	Percent
Transferred from school	58	13.7
Retained in Jr, Primary	10	2.4
Moved to Low First Grade	230	54.4
Promoted to High First Gr.	125	29.5
Total	423	100.0

Note: The junior primary for state accounting purposes, is considered a low first grade. Therefore, pupils moved from the junior primary to the low first grade are recorded as non-promoted. Junior primary pupils moved to the high first grade are counted as promoted low first grade pupils.

TABLE V.

NUMBER AND PER CENT OF ELEMENTARY PUPILS NOT PROMOTED, PROMOTED ONCE, AND PROMOTED MORE THAN ONCE, BY GRADES, FOR SPRING TERM, 1933-1934.

GRADE	SEX	TOTAL	Number Not Promoted	Number Promoted Once	Number Promoted More Than Once	Total Promoted	Percent Not Promoted	Percent Promoted Once	Percent Promoted More Than Once	Total Percent Promoted
Jr. Pri.	B	206	141	65	1	65	68.4	31.6	1	31.6
	G	159	99	60	1	60	62.3	37.7	1	37.7
	T	365	240	125	1	125	65.8	34.2	1	34.2
L-1	B	1164	114	1037	13	1050	9.8	89.1	1.1	90.2
	G	1044	73	955	16	971	7.0	91.5	1.5	93.0
	T	2208	187	1992	29	2021	8.5	90.2	1.3	91.5
H-1	B	1686	151	1521	14	1535	9.0	90.2	.8	91.0
	G	1564	65	1479	20	1499	4.2	94.5	1.3	95.8
	T	3250	216	3000	34	3034	6.6	92.3	1.1	93.4
L-2	B	1240	71	1155	14	1169	5.7	93.2	1.1	94.3
	G	1119	36	1070	13	1083	3.2	95.6	1.2	96.8
	T	2359	107	2225	27	2252	4.5	94.3	1.2	95.5
H-2	B	1647	100	1532	15	1547	6.1	93.0	.9	93.9
	G	1460	38	1409	13	1423	2.6	96.5	.9	97.4
	T	3107	138	2941	28	2969	4.4	94.7	.9	95.6
L-3	B	1254	80	1160	14	1174	6.4	92.5	1.1	93.6
	G	1136	36	1078	22	1100	3.2	94.9	1.9	96.8
	T	2390	116	2238	36	2274	4.9	93.6	1.5	95.1
H-3	B	1648	77	1548	23	1571	4.7	93.9	1.4	95.3
	G	1641	59	1557	25	1582	3.6	94.9	1.5	96.4
	T	3289	136	3105	48	3153	4.1	94.4	1.5	95.9
L-4	B	1344	81	1243	20	1263	6.0	92.5	1.5	94.0
	G	1294	42	1237	15	1252	3.2	95.6	1.2	96.8
	T	2638	123	2480	35	2515	4.7	94.0	1.3	95.3
H-4	B	1676	68	1581	27	1608	4.1	94.3	1.6	95.9
	G	1630	43	1571	16	1587	2.6	96.4	1.0	97.4
	T	3306	111	3152	43	3195	3.4	95.3	1.3	96.6
L-5	B	1361	51	1295	15	1310	3.7	95.2	1.1	96.3
	G	1337	40	1286	11	1297	3.0	96.2	.8	97.0
	T	2698	91	2581	26	2607	3.4	95.7	.9	96.6
H-5	B	1576	67	1490	19	1509	4.3	94.5	1.2	95.7
	G	1556	42	1504	10	1514	2.7	96.7	.6	97.3
	T	3132	109	2994	29	3023	3.5	95.6	.9	96.5

Table V,
Number and Per Cent of Elementary Pupils
Not Promoted, Promoted Once, and Promoted
More Than Once, By Grades, For Spring Term,
1933-1934, (Continued).

GRADE	SEX	TOTAL	Number Not Promoted	Number Promoted Once	Number Promoted More Than Once	Total Promoted	Percent Not Promoted	Percent Promoted Once	Percent Promoted More Than Once	Total Percent Promoted
L-6	B	1458	67	1370	21	1391	4.6	94.0	1.4	95.4
	G	1407	29	1351	27	1378	2.1	96.0	1.9	97.9
	T	2865	96	2721	48	2769	3.4	94.9	1.7	96.6
H-6	B	1661	30	1612	19	1631	1.8	97.1	1.1	98.2
	G	1618	13	1592	13	1605	.8	98.4	.8	99.2
	T	3279	43	3204	32	3236	1.3	97.7	1.0	98.7
L-7	B	554	48	500	6	506	8.7	90.2	1.1	91.3
	G	546	14	529	3	532	2.6	96.9	.5	97.4
	T	1100	62	1029	9	1038	5.6	93.6	.8	94.4
H-7	B	739	38	691	10	701	5.1	93.5	1.4	94.9
	G	779	10	760	9	769	1.3	97.6	1.1	98.7
	T	1518	48	1451	19	1470	3.2	95.6	1.2	96.8
L-8	B	522	20	501	1	502	3.8	96.0	.2	96.2
	G	512	5	505	2	507	1.0	98.6	.4	99.0
	T	1034	25	1006	3	1009	2.4	97.3	.3	97.6
H-8	B	618	3	613	2	615	.5	99.2	.3	99.5
	G	667	6	661	1	661	.9	99.1	.1	99.1
	T	1285	9	1274	2	1276	.7	99.1	.2	99.3
Totals	B	20354	1207	18914	233	19147	5.9	92.9	1.2	94.1
	G	19469	650	18604	215	18819	3.3	95.6	1.1	96.7
	T	39823	1857	37518	448	37966	4.7	94.2	1.1	95.3

TABLE VI.

PERCENT OF ELEMENTARY PUPILS PROMOTED, NOT PROMOTED,
BY SCHOOLS, SPRING TERM 1933-1934.

<u>School</u>	<u>Per Cent Not Promoted</u>			<u>Per Cent Promoted</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
Adams	8.5	2.1	5.6	91.5	97.9	94.4
Alamo	4.0	2.1	3.1	96.0	97.9	96.9
Alvarado	6.1	2.0	4.1	93.9	98.0	95.9
Andrew Jackson	1.1	1.7	1.4	98.9	98.3	98.6
Argonne	2.1	.9	1.5	97.9	99.1	98.5
Bay View	2.6	-	1.3	97.4	100.0	98.7
Bret Harte	2.2	-	1.1	97.8	100.0	98.9
Bryant	1.5	2.7	2.1	98.5	97.3	97.9
Burnett	8.4	5.8	7.1	91.6	94.2	92.9
Cabrillo	3.9	.5	2.3	96.1	99.5	97.7
Cleveland	6.2	4.5	5.3	93.8	95.5	94.7
Columbus	3.3	2.5	2.9	96.7	97.5	97.1
Commodore Sloat	7.9	2.0	5.0	92.1	98.0	95.0
Commodore Stockton	5.3	2.9	4.1	94.7	97.1	95.9
Daniel Webster	5.6	1.3	3.5	94.4	98.7	96.5
Douglas	12.2	5.0	8.7	87.8	95.0	91.3
Dudley Stone	7.2	3.2	5.2	92.8	96.8	94.8
Edison	7.4	3.7	5.7	92.6	96.3	94.3
Edward R. Taylor	8.8	5.4	7.3	91.2	94.6	92.7
Emerson	6.3	4.2	5.3	93.7	95.8	94.7
Excelsior	3.8	2.3	3.1	96.2	97.7	96.9
Fairmount	4.5	2.3	3.5	95.5	97.7	96.5
Farragut	5.3	3.2	4.2	94.7	96.8	95.8
Francis Scott Key	4.9	3.1	4.0	95.1	96.9	96.0
Franklin	8.8	7.9	8.3	91.2	92.1	91.7
Frank McCoppin	2.6	1.5	2.1	97.4	98.5	97.9
Fremont	9.1	1.7	5.4	90.9	98.3	94.6
Garfield	14.0	9.3	11.5	86.0	90.7	88.5
Geary	9.9	3.8	7.1	90.1	96.2	92.9
George Peabody	6.2	2.8	4.4	93.8	97.2	95.6
Glen Park	5.7	4.7	5.2	94.3	95.3	94.8
Golden Gate	2.7	.6	1.7	97.3	99.4	98.3
Grant	5.0	2.3	3.6	95.0	97.7	96.4
Grattan	6.9	2.8	4.9	93.1	97.2	95.1
Guadalupe	5.1	3.1	4.0	94.9	96.9	96.0
Hancock	5.1	4.8	5.0	94.9	95.2	95.0
Hawthorne	9.7	3.7	6.8	90.3	96.3	93.2
Hillcrest	7.1	1.5	4.3	92.9	98.5	95.7
Irving M. Scott	6.5	6.2	6.4	93.5	93.8	93.6
Jean Parker	7.8	9.7	8.7	92.2	90.3	91.3
Jefferson	10.0	3.6	7.0	90.0	96.4	93.0
John Muir	8.1	5.1	6.6	91.9	94.9	93.4
Junipero Serra	11.8	7.5	9.8	88.2	92.5	90.2
Kate Kennedy	5.6	.9	3.3	94.4	99.1	96.7
Lafayette	1.0	.9	1.0	99.0	99.1	99.0

Table VI,
Percent of Elem. Pupils
Prompted, and Not Prompted,
By Schools, Spring Term, 1933-1934,
(Continued).

<u>School</u>	<u>Per Cent Not Prompted</u>			<u>Per Cent Prompted</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
Laguna Honda	1.7	.8	1.2	98.3	99.2	98.8
Lawton	3.7	7.3	5.3	96.3	92.7	94.7
LeConte	4.0	2.9	3.5	96.0	97.1	96.5
Longfellow	6.9	2.5	4.7	93.1	97.5	95.3
Madison	1.7	.4	1.1	98.3	99.6	98.9
Marshall	4.1	3.9	4.0	95.9	96.1	96.0
McKinley	4.6	2.2	3.5	95.4	97.8	96.5
Monroe	6.3	3.3	4.8	93.7	96.7	95.2
Pacific Heights	2.9	2.0	2.5	97.1	98.0	97.5
Parkside	3.0	1.2	2.2	97.0	98.8	97.8
Patrick Henry	10.6	8.2	9.5	89.4	91.8	90.5
Paul Revere	9.4	5.6	7.5	90.6	94.4	92.5
Raphael Weill	5.9	4.1	4.9	94.1	95.9	95.1
Redding	2.4	1.2	1.8	97.6	98.8	98.2
Rincon	17.5	4.9	11.0	82.5	95.1	89.0
Sanchez	4.6	5.4	5.0	95.4	94.6	95.0
San Miguel	2.9	-	1.3	97.1	100.0	98.7
Sarah B. Cooper	10.7	7.0	8.9	89.3	93.0	91.1
Sheridan	3.8	2.3	3.1	96.2	97.7	96.9
Sherman	6.2	3.2	4.7	93.8	96.8	95.3
Spring Valley	6.7	2.3	4.5	93.3	97.7	95.5
Starr King	11.4	8.4	9.9	88.6	91.6	90.1
Sunnyside	6.7	4.7	5.7	93.3	95.3	94.3
Sutro	2.6	-	1.4	97.4	100.0	98.6
Twin Peaks	-	2.3	1.2	100.0	97.7	98.8
Visitation Valley	9.5	4.0	6.6	90.5	96.0	93.4
Washington Irving	10.2	5.8	8.5	89.8	94.2	91.5
West Portal	1.2	.4	.9	98.8	99.6	99.1
Winfield Scott	1.0	1.6	1.3	99.0	98.4	98.7
Yerba Buena	7.1	2.4	4.9	92.9	97.6	95.1
<u>SPECIAL SCHOOLS</u>						
Buena Vista	8.1	-	4.9	91.9	100.0	95.1
Children's Hospital	-	-	-	100.0	100.0	100.0
Gough	6.7	16.7	12.8	93.3	83.3	87.2
San Francisco Hospital	24.1	16.7	20.8	75.9	83.3	79.2
Shriners' Hospital	6.2	3.4	4.9	93.8	96.6	95.1
Sunshine	8.2	5.2	6.5	91.8	94.8	93.5
Totals	5.9	3.3	4.7	94.1	96.7	95.3

(City & County) Board of Education
SAN FRANCISCO ~~PUBLIC SCHOOLS~~
BUREAU OF RESEARCH, ADULT EDUCATION, AND EVENING SCHOOLS
Civic Auditorium, Polk and Grove Streets

CLASS SIZE
SAN FRANCISCO JUNIOR HIGH SCHOOLS
Fall Term - 1934

Bulletin No. 65
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SAN FRANCISCO PUBLIC SCHOOLS
Bureau of Research, Adult Education, and Evening Schools
Civic Auditorium, Polk and Grove Streets

CLASS SIZE - SAN FRANCISCO JUNIOR HIGH SCHOOLS
Fall Term, 1934

The class size summaries which follow should be viewed in the light of the pupil-teacher ratio plan submitted by Deputy Superintendent Walter C. Nolan, and adopted by the Board of Education June 7, 1932. This plan now in its third year of practice follows:

Assignment of Credentialed Personnel to Junior
High Schools

1. The basic enrollment figure to be used for determining the number of credentialed personnel for any term shall be the end of the month enrollment of the first month of the preceding term. In the event of exceptional increases or decreases at the beginning of a term, adjustments shall then be made according to the ratio stated below.
2. The ratio of pupils to teachers for the school year 1932-33 shall be as follows, with the proviso that it be reduced to the ratio in effect during the year 1931-32 as soon as the present emergency ceases.
 - (a) In schools with an enrollment of 1500 pupils and above, the maximum number of teachers shall be determined by dividing the total enrollment by 32, plus an allowance of 3 in administration and 1 in library service.
 - (b) In schools with an enrollment of 1100 pupils to 1499 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 31, plus an allowance of 3 in administration and 1 in library service.
 - (c) In schools with an enrollment of 500 pupils to 1099 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 27, plus an allowance of 2 in administration and 1 in library service.
 - (d) In schools with an enrollment of 499 pupils and below, the maximum number of teachers shall be determined by dividing the total enrollment by 26, plus an allowance of a maximum of 2 in administration and 1 in library service.
3. It is recommended that the principals be authorized to operate these ratios as major program restrictions without other or further program restrictions.

4. The rule for determining the number of credentialed personnel shall be as follows:

The number of teachers equals the enrollment divided by the ratio. If the quotient is fractional, use the nearest whole number.

5. All teachers shall have assigned duties for six periods per day. The minimum number of classes shall be five per day.

Table I, which follows, shows the Fall 1934 enrollment with the actual number of teachers employed as well as the number allowed by Board rule. Exclusive of administrative officers and librarians 350 teachers are employed. According to the ratio adopted by the Board, 360 are allowed.

Table I

Pupil - Teacher Ratio
Junior High Schools
Fall 1934

School	Enrollment Fall Term 1934	No. of Teachers Fall 1934		Pupils Per Teacher	Board's Adopted Ratio	Adminis- trative Officers
		Actually Employed	Allowed by Bd.Rul.			
Aptos	1350	44	44	31	31	4
Everett	2007	* 59 (1)	63	34	32	4
Francisco	1181	40	38	30	31	4
Horace Mann	1386	42	45	33	31	4
James Lick	591	19	21	31	27	3
John Swett	634	23	23	27	27	3
Portola	947	33	34	29	27	3
Presidio	1636	* 50 (1)	51	33	32	4
Roosevelt	1271	40	41	32	31	4
Total	11,003	*350 (2)	360	31	30	36

* Special teachers of sight conservation and lip reading.

The summaries which follow are based on the teachers' programs during the first month of the Fall 1934 term.

Table II shows the distribution of class size by departments. The total number of classes is 2042 with a median class size of 38.1. The median class size ranges from 24.6 in Home Economics to 49.7 in Physical Education. The smallest classes are found in Home Economics, Industrial Arts, and Art. There are 197 classes in the junior high schools with enrollments of 50 or higher, the majority of which are in Physical Education and Music.

Table III compares the median class size by departments for Fall 1934 with the five previous semesters. The median class size for the current semester exceeds that of any previous semester recorded by one.

Table IV shows the class size distribution in subjects other than Physical Education and Music. The median for this group is 36.4.

Table V gives a summary of the Physical Education and Music classes. These classes meet two times per week rather than five times. The median class size for such classes is 44.

Table VI presents the number of classes and class size by schools. These medians range from 34.3 in Portola to 41.1 in Aptos, the median of all of the junior high school classes being 38.1.

Table VII gives a comparative summary of class size by school for a period of six semesters. The schools in which the increase in class size is greater than 1 pupil follow: Aptos, Everett, Horace Mann, Portola and Roosevelt. Decreases are noticed at Francisco, John Swett, and Presidio since the previous semester.

Table VIII shows the number of small classes in each school for a period covering six semesters. Since the Spring Term of 1932, the following decreases in small classes are noted:

<u>Size of Class</u>	<u>Spring 1932</u>	<u>Fall 1934</u>
Under 20	157	91
20-25	344	267
Less than 25	501	358

The number of small classes in the fall 1934 term is slightly higher than the spring term.

Table IX is a recapitulation of the preceding tables in that it shows the median class size by both schools and departments. From it one is able to determine the class size by subjects in any school, the median for the schools and the medians for each department throughout the junior high school organization.

Table II

Number of Classes and Class Size by Departments
Fall, 1934

Size of Class	Art	Commerce	English	Home Economics	Industrial Arts	Languages	Mathematics	Science	Social Science	*Music	*Physical Education	TOTAL
60 and over			1							26	76	103
55-59										6	17	23
50-54		1	8				9	3	10	13	27	71
45-49	1	13	67		1	10	42	21	71	20	37	283
40-44	2	19	104	1	1	18	78	42	101	36	38	440
35-39	10	15	61	2	7	23	50	16	44	27	17	272
30-34	23	16	29	30	43	20	23	14	21	18	11	248
25-29	31	9	12	32	72	20	10	5	8	32	13	244
20-24	25	6	9	53	88	22	7	6	6	36	9	267
15-19	9		5	17	15	7	4	1	3	12		73
10-14	1		1	2	4	1			2	2		13
5-9				1	2		1		1			5
0-4												
TOTAL	102	79	297	138	233	121	224	108	267	228	245	2042
Median	27.6	37.8	41.5	24.6	25.5	32.6	41.1	41.4	42.4	37.6	49.7	38.1

Table III

Median Class Size by Departments
Spring 1932 -- Fall 1934

Department	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934
Art	24.6	26.0	24.3	25.9	25.8	27.6
Commerce	36.2	34.1	36.1	34.1	33.4	37.8
English	39.0	39.7	39.5	41.2	41.3	41.5
Home Economics	22.4	23.3	21.8	25.4	25.5	24.6
Industrial Arts	23.5	24.5	24.0	24.6	25.3	25.5
Languages	33.5	33.6	33.6	28.7	29.2	32.6
Mathematics	39.1	40.5	40.6	41.4	41.3	41.1
Science	39.8	40.1	41.0	38.8	40.5	41.4
Social Science	39.5	40.7	41.0	41.4	42.2	42.4
*Music	41.6	40.5	40.0	41.2	42.1	37.6
*Physical Educ.	41.8	42.3	41.6	43.9	48.6	49.7
Median of Totals	36.1	35.7	35.9	36.5	37.1	38.1

*Classes in Physical Education and Music, meeting two times per week, have been expressed in terms of five meetings per week in order to be in accordance with other classes.

Table IV
Class Size in Subjects Other Than Music
and Physical Education

Fall, 1934

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over					1					1
55-59										
50-54		3		5	1			20	2	31
45-49	36	27	7	38	17	6	2	59	34	226
40-44	57	78	47	45	9	18	38	28	41	366
35-39	19	59	30	21	13	16	22	16	32	228
30-34	23	53	20	13	15	18	14	24	19	219
25-29	22	40	30	19	11	16	12	25	24	199
20-24	16	11	19	48	15	18	37	45	13	222
15-19	15		12		4	7	15	5	3	61
10-14	2		1				5	2	1	11
5-9	1						3	1		5
0-4										
TOTAL	191	271	166	189	86	99	148	225	169	1569
Median	39.3	37.7	35.0	38.4	34.3	31.0	34.3	38.3	38.8	36.4

Table V
Class Size in Music and Physical Education Classes

Fall, 1934

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over	22	10	15	16	5	4	7	11	12	102
55-59	3	6	1	2	1	2	2	2	4	23
50-54	4	10	2	13	1	1	1	5	3	40
45-49	7	3	4	8	7	4	5	15	4	57
40-44	8	4	7	9	5	6	9	9	17	74
35-39		5	4	12	4	6	2	6	5	44
30-34		5	1	8		2	3	5	5	29
25-29	1	9	1	11	1	3	2	8	9	45
20-24	8	3	7	12		2	1	6	6	45
15-19	1		3			3	1		4	12
10-14									2	2
5-9										
0-4										
TOTAL	54	55	45	91	24	33	33	67	61	473
Median	52.5	47.5	44.6	41.5	46.4	40.4	44.2	44.7	39.5	44.0

Table VI
Number of Classes and Class Size by Schools

Fall, 1934

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over	22	10	15	16	6	4	7	11	12	103
55-59	3	6	1	2	1	2	2	2	4	23
50-54	4	13	2	18	2	1	1	25	5	71
45-49	43	30	11	46	24	10	7	74	38	283
40-44	65	82	54	59	14	24	47	37	58	440
35-39	19	64	34	33	17	22	24	22	37	272
30-34	23	58	41	21	15	20	17	29	24	248
25-29	23	49	31	30	12	19	14	33	33	244
20-24	24	14	26	60	15	20	38	51	19	267
15-19	16		15		4	10	16	5	7	73
10-14	2		1				5	2	3	13
5-9	1						3	1		5
0-4										
TOTAL	245	326	231	285	110	132	181	292	240	2042
Median	41.1	38.2	35.2	39.8	37.6	34.2	34.3	40.4	39.6	38.1

Table VII
Median Class Size by Schools
Spring 1932-- Fall 1934

School	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934
Aptos	39.7	39.5	39.4	39.3	40.5	41.1
Everett	35.8	36.4	36.0	36.1	35.5	38.2
Francisco	37.4	35.0	34.9	35.6	36.1	35.2
Horace Mann	37.9	37.9	38.6	38.8	38.1	39.8
James Lick	28.1	31.5	34.1	34.2	37.8	37.6
John Swett	31.6	30.5	32.6	33.5	36.0	34.2
Portola	30.1	28.3	30.7	29.7	30.0	34.3
Presidio	39.9	40.0	39.7	40.1	41.5	40.4
Roosevelt	36.3	36.0	36.2	38.8	38.1	39.6
TOTAL	36.1	35.7	35.9	36.5	37.1	38.1

TABLE VIII

Small Classes by Schools
Spring 1932 - Fall 1934

SCHOOL	Less than 20 pupils					20 to 24 pupils					Less than 25 pupils				
	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934
Aptos	19	12	8	8	11	19	38	29	38	22	23	24	57	41	43
Everett	5	6	4	4	5	-	46	43	39	34	16	14	51	49	21
Francisco	15	8	14	5	13	16	19	54	43	35	22	26	34	62	35
Horace Mann	11	14	1	2	-	-	54	60	61	55	58	60	65	74	58
James Lick	21	16	13	-	7	4	25	27	20	22	10	15	46	43	17
John Swett	20	17	11	3	5	10	21	27	15	40	12	20	41	44	17
Portola	27	33	21	20	19	24	44	44	39	24	28	38	71	77	47
Presidio	23	15	19	10	14	8	46	55	37	32	34	51	69	70	48
Roosevelt	6	7	6	3	8	10	31	33	28	16	15	19	37	40	23
TOTAL	157	134	100	58	86	91	344	388	349	296	230	267	501	522	358

Table IX

Median Class Size by Schools and Departments
Fall, 1934

Department	Aptos	Everett	Francisco	H. Mann	J. Lick	I. Swett	Portola	Presidio	Roosevelt	TOTAL
Art	26.7	37.1	18.7	28.3	33.1	26.9	22.0	24.2	29.1	27.6
Commerce	40.3	44.5	33.3	36.0	40.0	37.5	28.7	32.5	46.7	37.8
English	42.7	35.6	37.6	43.6	38.7	35.5	40.5	45.7	42.7	41.5
Home Econ.	26.2	31.8	25.8	23.0	23.7	21.9	20.0	23.5	27.2	24.6
Ind. Arts	26.4	30.9	25.2	23.8	23.9	26.5	22.4	23.7	28.3	25.5
Languages	27.5	28.7	34.1	36.2	35.0	25.0	40.0	30.0	32.5	32.6
Mathematics	42.2	38.9	40.0	43.7	37.5	34.5	40.0	45.8	41.2	41.1
Music	41.9	39.2	25.0	34.6	47.7	37.5	40.7	39.1	40.5	37.6
Phys. Ed.	59.2	52.9	46.1	52.0	46.2	45.0	52.5	46.5	42.0	49.7
Science	43.3	41.7	41.0	41.7	45.8	52.5	39.1	41.7	42.5	41.4
Social Sci.	43.5	41.4	39.3	43.7	42.5	39.4	37.5	47.1	42.9	42.4
Median of Totals	41.1	38.3	35.2	39.8	37.6	34.2	34.3	40.4	39.6	38.1

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(City & County) Board of Education

~~SAN FRANCISCO PUBLIC SCHOOLS~~
BUREAU OF RESEARCH, ADULT EDUCATION AND EVENING SCHOOLS
CIVIC AUDITORIUM, GROVE AND POLK STREETS

CLASS SIZE

SAN FRANCISCO HIGH SCHOOLS

Fall Term, 1934-1935

Bulletin No. 66

November, 1934

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EXTRACT OF MINUTES OF BOARD OF EDUCATION MEETING
VOL.18 B, 1932 - PAGES 685 and 686.

Credentialed
Personnel
and Ratio of
Students to
Teachers
Senior High
Schools

RESOLVED: That the credentialed personnel in high schools be determined as follows:

The basic enrollment figure to be used for determining the number of credentialed personnel for any term shall be the end of the month enrollment of the first month of the preceding term. In the event of either exceptional increases or decreases at the beginning of a term, adjustment shall then be made according to the ratio herein below established.

Further, That the ratio of students to teachers shall be as follows:

HIGH SCHOOL OF COMMERCE:

1 teacher per 31 students or major fraction
of 31 students

BALBOA HIGH SCHOOL:

1 teacher per 30 students or major fraction
of 30 students

GALILEO
LOWELL
MISSION
POLYTECHNIC
HIGH SCHOOLS

1 teacher per 29 students or major fraction
of 29 students

GIRLS HIGH

1 teacher per 27 students or major fraction
of 27 students

Further, That the rule for determining the number of credentialed personnel shall be as follows:

(a) The number of teachers equals the enrollment divided by the ratio. If the quotient is fractional, use the nearest whole number.

(b) The personnel allowed for administration, supervision, library duty and other co-teaching functions shall be a maximum of ten percent of the quotient derived under (a) above, using the nearest whole number.

(c) The total number of credentialed personnel equals the sum of (a) and (b). This sum shall include the R.O.T.C. instructions assigned to the school, but does not include credentialed personnel at large.

Further, That the above ratios are the averages that must be maintained for the school as a whole; provided that no class shall be maintained with an enrollment of fewer than 20 pupils except by special permission of the Deputy Superintendent in charge of high schools. A written report of such cases shall be submitted to the Board of Education by the Superintendent at the end of the first school month of each term.

Further, That high school teachers shall have assigned duties for six clock hours per day. Teachers of prepared subjects shall teach a minimum of twenty-four periods per week, and teachers of unprepared subjects a minimum of twenty-eight periods per week. No department head shall be relieved of more than one teaching class.

OFFICE OF THE SUPERINTENDENT OF SCHOOLS
Bureau of Research, Adult Education, and Evening Schools
November, 1934

CLASS SIZE
SAN FRANCISCO SENIOR HIGH SCHOOLS
FALL TERM, 1934-1935

The data which formed the basis of this study were derived from the teacher programs submitted by the teachers of the high schools in September, 1934.

Classes in all high schools meet five times a week. All schools include grades 9 to 12, except Mission, which has grades 10 to 12, and Girls High School which has grades 7 to 12.

TABLE I

Class Size by Departments for All Schools

CLASS SIZE	Art	Com- mer- cial	Eng- lish	Lang- uage	House- hold Arts	In- dus- trial Arts	Math- emat- ics	Me- chan- ical Draw- ing	Mu- sic	Phy- si- cal Ed. Boys	Phy- si- cal Ed. Girls	Sci- ence	Soc- ial Sci- ence	R.O. T.C.	To- tal
50 or over							1		11	78	62			12	164
45-49	1	6	1		2		3		3	23	58		11	7	115
40-44	2	105	40	32	3		37		8	15	37	2	66	3	350
35-39	11	99	161	73	11		69		5	16	16	20	132	1	614
30-34	24	68	154	86	22	51	63	17	8	12	23	49	73	1	651
25-29	49	55	91	66	54	57	43	39	25	12	20	120	29		660
20-24	33	29	44	52	28	21	10	28	29	3	10	75	21		383
15-19	9	1	3	15	8	4	3	1	3	1		7	1		56
10-14	1	1	1	5	1		2		1			2			14
5-9				2			1		1						4
0-4															
TOTAL	130	364	495	331	129	133	232	85	94	160	226	275	333	24	3011
MEDIAN	27.2	36.4	36.4	31.4	27.5	28.6	34.5	26.7	27.6	49.5	45.6	27.2	36.6	50.	32.9
										48.3					

On the last line of the table, the median class-size is shown for each department and for all departments, ranging from 26.7 in mechanical drawing to 50 in R.O.T.C. with 33 as the median class-size for all classes. One may say that about one-half of the classes in the high schools have more, and about one-half of the classes have less than 33 pupils.

The above tabulation also shows that there are 74 classes with less than 20 pupils, and 383 classes having from 20 to 24 pupils. These small classes are distributed among the various departments as shown in Table II, following.

TABLE II
Small Classes by Departments

Department	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Academic		
English	4	44
Social Science	1	21
Mathematics	6	10
Language	22	52
Science	9	75
Total Academic	42	202
Non-Academic		
Commercial	2	29
Industrial Arts	4	21
Household Arts	9	28
Art	10	33
Mechanical Drawing	1	28
Music	5	29
Physical Education	1	13
R.O.T.C.	0	0
Total Non-Academic	32	181
Grand Total	74	383

Table III which follows is a distribution of class size by schools.

TABLE III
Class Size by Schools

Class Size	Balboa	Com- merce	Gali- leo	Girls	Lowell	Mission	Poly- technic	Total
50 & over	37	29	36		17	22	23	164
45-49	22	25	16	3	15	18	16	115
40-44	41	111	66	12	28	40	52	350
35-39	104	111	114	26	68	95	96	614
30-34	138	82	75	44	92	124	96	651
25-29	120	64	87	70	104	95	120	660
20-24	46	31	73	62	41	42	88	383
15-19	3		8	32	1	7	5	56
10-14	1		1	12				14
5-9				4				4
1-4								
TOTAL	513	453	476	265	366	443	496	3011
MEDIAN	33.4	37.2	34.6	26.6	32.0	33.1	31.8	32.9



On the last line of the above table is shown the median class size for each school, ranging from 26.6 at Girls to 37.2 at Commerce.

TABLE IV

The 74 classes with less than 20 pupils and the 383 classes having from 20 to 24 pupils are distributed by schools as follows in Table IV. The classes of the 7th and 8th grades at Girls High School are included in this study.

Small Classes by Schools

SCHOOL	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Balboa	4	46
Commerce	0	31
Galileo	9	73
Girls	48	62
Lowell	1	41
Mission	7	42
Polytechnic	5	88
TOTAL	74	383

TABLE V

Table V is a tabulation showing the number of classes for each department, in academic departments, in commercial departments, in non-academic departments excluding commercial classes, in physical education, and in the total of all classes by schools.

Number of Classes in Each Department - by Schools

Department	Balboa	Com- merce	Gal- ileo	Girls	Low- ell	Mission	Poly- technic	TOTAL
English	88	69	81	41	68	69	79	495
Social Science	50	44	51	24	51	62	51	333
Mathematics	38	26	49	19	33	31	36	232
Modern Language	53	48	63	36	64	29	38	331
Science	48	34	47	16	61	20	49	275
Total Academic	277	221	291	136	277	211	253	1666
Commercial	58	104	48	28	11	74	41	364
Industrial Arts	29	0	28	0	0	35	41	133
Household Arts	34	19	11	25	0	22	18	129
Art	18	12	12	19	16	17	36	130
Mech. Drawing	14	8	16	0	3	17	27	85
Music	21	10	7	13	13	11	19	94
R.O.T.C.	4	4	6	0	5	1	4	24
Total Non-Academic	178	157	128	85	48	177	186	959
Physical Ed.	57	* 75	57	44	41	55	57	386
GRAND TOTAL	513	453	476	265	366	443	496	3011

* Eighteen of these classes are one day a week classes under the school nurse.

CONTENTS
ORIGINAL ARTICLES
The Effect of the Diet on the Blood Pressure in Normal and Hypertensive Subjects
The Effect of the Diet on the Blood Pressure in Normal and Hypertensive Subjects
The Effect of the Diet on the Blood Pressure in Normal and Hypertensive Subjects

ORIGINAL ARTICLES

THE EFFECT OF THE DIET ON THE BLOOD PRESSURE IN NORMAL AND HYPERTENSIVE SUBJECTS
J. H. HARRIS, M.D., AND J. H. HARRIS, M.D.

TABLE I	
Blood Pressure in Normal and Hypertensive Subjects	
Normal Subjects	Hypertensive Subjects
1. 100	100
2. 100	100
3. 100	100
4. 100	100
5. 100	100
6. 100	100
7. 100	100
8. 100	100
9. 100	100
10. 100	100

THE EFFECT OF THE DIET ON THE BLOOD PRESSURE IN NORMAL AND HYPERTENSIVE SUBJECTS
J. H. HARRIS, M.D., AND J. H. HARRIS, M.D.

TABLE II	
Blood Pressure in Normal and Hypertensive Subjects	
Normal Subjects	Hypertensive Subjects
1. 100	100
2. 100	100
3. 100	100
4. 100	100
5. 100	100
6. 100	100
7. 100	100
8. 100	100
9. 100	100
10. 100	100

TABLE VI

Table VI is a similar tabulation, showing the median class-size for each department in academic departments, in commercial departments, in non-academic departments, excluding commercial, in physical education, and in total of all classes by schools.

Median Class-Size by Schools and by Departments
Fall Term - 1934-1935

Department	Balboa	Com- merce	Gal- ileo	Girls	Lowell	Mission	Poly- technic	TOTAL
English	32.6	38.0	35.3	27.9	30.8	32.1	34.5	36.4
Social Science	36.3	38.6	39.1	32.5	34.8	36.9	35.6	36.6
Mathematics	33.8	35.0	35.6	28.9	36.6	31.5	36.0	34.5
Modern Lan- guage & Latin	35.1	32.5	34.4	21.8	31.1	27.9	32.0	31.4
Science	26.1	31.6	26.4	22.5	27.1	27.1	27.8	27.2
Academic Median	34.3	35.8	35.2	26.7	31.1	32.3	33.0	32.8
Commercial	37.3	39.1	33.1	28.5	39.3	34.5	39.5	36.4
Industrial Arts	29.0	--	25.7	--	--	33.9	26.7	28.6
Household Arts	25.9	31.8	26.0	24.5	--	31.8	26.6	27.5
Art	26.8	28.3	25.0	19.7	28.0	32.5	27.6	27.2
Mech. Drawing	32.3	25.0	23.0	--	28.7	27.1	26.2	26.7
Music	29.0	41.2	28.7	22.9	26.7	37.5	24.7	27.6
R.O.T.C.	42.1	50.0	52.5	--	42.5	52.5	50.0	50.0
Non-Academic Median	30.3	36.6	27.5	24.1	30.0	32.4	28.0	30.0
Physical Edu- cation	50.8	45.2	50.0	31.2	48.4	45.5	46.3	46.7
MEDIAN FOR ALL	33.4	37.2	34.6	26.6	32.0	33.1	31.8	32.9

TABLE VII*

A ranking of schools according to median class-size in academic classes, non-academic classes, in commercial classes, in physical education, and in all classes is shown by Table VII which follows:

Academic			Non-Academic		
School	Median Class Size	Rank	School	Median Class Size	Rank
Commerce	35.8	1	Commerce	36.6	1
Galileo	35.2	2	Mission	32.4	2
Balboa	34.3	3	Balboa	30.3	3
Polytechnic	33.0	4	Lowell	30.0	4
Mission	32.3	5	Polytechnic	28.0	5
Lowell	31.1	6	Galileo	27.5	6
Girls	26.7	7	Girls	24.1	7
Average			Average		
32.8			30.0		
Commercial			Physical Education		
Polytechnic	39.5	1	Balboa	50.8	1
Lowell	39.3	2	Galileo	50.0	2
Commerce	39.1	3	Lowell	48.4	3
Balboa	37.3	4	Polytechnic	46.3	4
Mission	34.5	5	Mission	45.5	5
Galileo	33.1	6	Commerce	45.2	6
Girls	28.5	7	Girls	31.2	7
Average			Average		
36.4			46.7		

Total in All Classes

School	Median Class Size	Rank
Commerce	37.2	1
Galileo	34.6	2
Mission	33.1	3
Balboa	33.0	4
Lowell	32.0	5
Polytechnic	31.8	6
Girls	26.6	7
Average	32.9	

* Note: In making comparisons, the type and character of the school must be

considered. The number of classes in the departments of each school (see Table V) is also a factor.

TABLE VIII

Table VIII shows the median class-size by departments in San Francisco for eight terms; spring 1930-31; fall 1931-32; spring 1931-32; fall 1932-33; spring 1932-33; fall 1933-34; spring 1933-34 and fall 1934-35

DEPARTMENT	San Francisco							
	Spring 1930-31	Fall 1931-32	Spring 1931-32	Fall 1932-33	Spring 1932-33	Fall 1933-34	Spring 1933-34	Fall 1934-45
Art	26.1	26.0	26.6	28.4	28.4	27.1	27.6	27.2
Commercial	35.4	34.4	33.3	37.3	37.5	36.9	36.7	36.4
English	31.6	32.6	32.5	33.5	34.2	34.1	34.9	36.4
Language	29.6*	30.2**	30.9**	31.7**	32.1**	32.7**	31.3**	31.4**
Household Arts	27.6	25.9	26.6	29.0	29.0	28.2	28.0	27.5
Industrial Arts	25.5	25.9	27.1	26.9	27.9	28.9	28.2	28.6
Mathematics	32.3	32.1	32.3	34.1	35.3	34.1	34.7	34.5
Mechanical Drawing	24.8	24.1	25.0	26.2	26.9	24.6	24.8	26.7
Music	29.3	31.7	30.0	32.9	33.3	31.6	33.0	27.6
Physical Ed.	43.4	42.5	42.8	46.1	45.9	46.5	46.8	48.3
Science	26.7	26.2	26.9	27.9	27.9	27.4	27.6	27.2
Soc. Science	35.5	34.9	35.0	37.4	37.5	36.4	36.6	36.6
R.O.T.C.	--	--	--	47.5	50.2	51.2	50.5	50.0
Median of all Departments	31.4	31.3	31.5	33.4	33.8	33.3	33.4	32.9

* Does not include Latin

** Includes Latin

TABLE IX.

If all the high school classes were distributed in five class-sizes: namely, classes with less than 20 pupils, 20 to 24 pupils, 25 to 29 pupils, 30 to 34 pupils, and more than 35 pupils, they would appear as follows in Tables IX and X. Table IX shows the distribution by number of classes, by schools; and Table X shows the percentage of classes in each of the five class-sizes by schools.

Number of Classes in Each Class-Size

Size of Class	Balboa	Com- merce	Gal- ileo	Girls	Lowell	Mission	Poly- technic	TOTAL
35 or over	204	276	232	41	128	175	187	1243
30-34	138	83	75	44	92	124	96	652
25-29	120	70	87	70	104	95	120	666
20-24	46	24	73	62	41	42	88	376
Less than 20	4	0	9	48	1	7	5	74
TOTAL	512	453	476	265	366	443	496	3011

TABLE X
Percentage of Classes in Each Class-Size

Size of Class	Balboa	Commerce	Galileo	Girls	Lowell	Mission	Poly-technic	TOTAL
35 or over	40.0	61.0	49.0	16.0	35.0	40.0	38.0	41.28
30-34	27.0	18.0	16.0	17.0	25.0	28.0	19.0	21.65
25-29	23.0	16.0	19.0	26.0	29.0	21.0	24.0	22.12
20-24	9.00	5.00	16.0	23.0	11.0	9.0	18.0	12.49
Less than 20	1.0	--	--	18.0	--	2.0	1.0	2.46
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.00

The following figures show the comparative percentages in the eight class-sizes for the spring term, 1930-1931; the fall term, 1931-1932; the spring term, 1931-1932; the fall term, 1932-1933; the spring term, 1932-1933; the fall term, 1933-1934; the spring term 1933-1934, and the fall term 1934-1935.

Size of Class	All H.S. Classes Spring Term 1930-31	All H.S. Classes Fall Term 1931-32	All H.S. Classes Spring Term 1931-32	All H.S. Classes Fall Term 1932-33	All H.S. Classes Spring Term 1932-33	All H.S. Classes Fall Term 1933-34	All H.S. Classes Spring Term 1933-34	All H.S. Classes Fall Term 1934-35
35 or over	33.10	33.40	33.00	43.00	44.93	42.09	43.36	41.28
30-34	23.20	22.60	24.50	22.20	21.52	23.57	21.31	21.65
25-29	23.00	23.60	24.20	22.40	22.22	19.99	20.11	22.12
20-24	17.40	18.00	16.50	11.10	10.49	12.64	12.40	12.49
Less than 20	3.30	2.40	1.80	1.30	.84	1.71	2.82	2.46

Class Size - San Francisco Continuation School

The following table shows the distribution of classes in the San Francisco Continuation School by departments. Each class listed in the distribution meets once per week, the length of the period being two clock hours.

TABLE XI
Class Size - San Francisco Continuation School

Class Size	Com-mercial	Eng-lish	Home Econ-omics	Mathe-matics	Social Sci-ence	Tech-nical Subjects	Total	Percent
30 or over	5	2	--	--	--	--	7	16.86
45-49	4	1	--	1	2	--	8	
40-44	15	2	6	2	3	--	28	
35-39	17	2	3	3	1	3	29	
30-34	25	7	9	2	1	14	58	
25-29	18	26	11	4	2	15	76	17.80
20-24	41	62	25	13	26	29	196	45.90
15-19	7	2	1	--	--	--	10	5.85
10-14	1	5	--	--	4	4	14	
5-9	--	--	--	--	1	--	1	
1-4	--	--	--	--	--	--	--	
Total	133	109	55	25	40	65	427	100.00
Median	29.8	23.8	25.3	24.9	22.8	22.1	24.8	

The first part of the report deals with the general situation of the country. It is a very interesting and informative study of the country's development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's development.

The second part of the report deals with the economic situation of the country. It is a very interesting and informative study of the country's economic development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's economic development.

The third part of the report deals with the social situation of the country. It is a very interesting and informative study of the country's social development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's social development.

The fourth part of the report deals with the political situation of the country. It is a very interesting and informative study of the country's political development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's political development.

The fifth part of the report deals with the cultural situation of the country. It is a very interesting and informative study of the country's cultural development. The author has done a great deal of research and has gathered a wealth of material. The report is well written and is a valuable contribution to the study of the country's cultural development.

There are 25 classes with an enrollment of less than 20 pupils, distributed among the department as follows:

Commercial -----	8
English -----	7
Home Economics -----	1
Social Science -----	5
Technical Subjects -----	4
Total -----	25

The median size of all classes is 24.8 ranging from 29.8 in commercial classes to 22.1 in technical subjects. The median size of all classes for the fall term, 1932-33, was 26.0; for the spring term 1932-33, was 32.0; for the fall term 1933-34 was 24.2; for the spring term 1933-34 was 29.4; and for the fall term 1934-35 is 24.8.

TABLE XII

The following tabulation shows the percentage of classes of several sizes for the spring term, 1930-31; the fall term, 1931-32; the spring term, 1931-32; the fall term 1932-33; the spring term, 1932-33; the fall term 1933-34; the spring term 1933-34 and the fall term 1934-35.

Size of Class	Per Cent of All Classes Continuation School							
	Spring 1930-31	Fall 1931-32	Spring 1931-32	Fall 1932-33	Spring 1932-33	Fall 1933-34	Spring 1933-34	Fall 1934-35
35 or over	12.30	13.50	35.50	22.70	41.00	19.00	31.28	16.86
30-34	12.10	10.70	15.70	15.10	15.00	13.00	16.67	13.59
25-29	16.00	22.30	15.90	15.60	19.00	17.00	19.40	17.80
20-24	52.90	26.50	27.30	44.90	22.00	41.00	31.25	45.90
Less than 20	6.70	17.00	5.60	1.70	3.00	10.00	1.60	5.85

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CLASS SIZE
SAN FRANCISCO JUNIOR HIGH SCHOOLS
Spring Term - 1935

Bulletin No. 67

March 1935

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SAN FRANCISCO PUBLIC SCHOOLS
Bureau of Research, Adult Education, and Evening Schools
Civic Auditorium, Polk and Grove Streets

CLASS SIZE - SAN FRANCISCO JUNIOR HIGH SCHOOLS
Spring Term, 1935

The class size summaries which follow should be viewed in the light of the pupil-teacher ratio plan submitted by Deputy Superintendent Walter C. Nolan, and adopted by the Board of Education June 7, 1932. This plan now in its third year of practice follows:

Assignment of Credentialed Personnel to Junior
High Schools

1. The basic enrollment figure to be used for determining the number of credentialed personnel for any term shall be the end of the month enrollment of the first month of the preceding term. In the event of exceptional increases or decreases at the beginning of a term, adjustments shall then be made according to the ratio stated below.
2. The ratio of pupils to teachers for the school year 1932-33 shall be as follows, with the proviso that it be reduced to the ratio in effect during 1931-1932 as soon as the present emergency ceases.
 - (a) In schools with an enrollment of 1500 pupils and above, the maximum number of teachers shall be determined by dividing the total enrollment by 32, plus an allowance of 3 in administration and 1 in library service.
 - (b) In schools with an enrollment of 1100 pupils to 1499 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 31, plus an allowance of 3 in administration and 1 in library service.
 - (c) In schools with an enrollment of 500 pupils to 1099 pupils, the maximum number of teachers shall be determined by dividing the total enrollment by 27, plus an allowance of 2 in administration and 1 in library service.
 - (d) In schools with an enrollment of 499 pupils and below, the maximum number of teachers shall be determined by dividing the total enrollment by 26, plus an allowance of a maximum of 2 in administration and 1 in library service.
3. It is recommended that the principals be authorized to operate these ratios as major program restrictions without other or further program restrictions.

4. The rule for determining the number of credentialed personnel shall be as follows:

The number of teachers equals the enrollment divided by the ratio. If the quotient is fractional, use the nearest whole number.

5. All teachers shall have assigned duties for six periods per day. The minimum number of classes shall be five per day.

Table I, which follows, shows the Spring 1935 enrollment with the actual number of teachers employed as well as the number allowed by Board rule. Exclusive of administrative officers and librarians 360 teachers are employed. According to the ratio adopted by the Board, 367 are allowed.

Table I

Pupil - Teacher Ratio
Junior High Schools
Spring 1935

School	Enrollment Spring Term 1935	No. of Teachers Spring 1935		Pupils Per Teacher	Board's Adopted Ratio	Adminis- trative Officers
		Actually Employed	Allowed by Bd. Rul.			
Aptos	1344	45	43	30	31	4
Everett	1977	61	62	32	32	4
Francisco	1215	40	39	30	31	4
Horace Mann	1361	43	44	32	31	4
James Lick	613	20	23	31	27	3
John Swett	711	24	26	30	27	3
Portola	1024	35	38	29	27	4
Presidio	1651	51	51	32	32	4
Roosevelt	1270	41	41	31	31	4
TOTAL	11,616	360	367	32	30	34

The summaries which follow are based on the teachers' programs during the first month of the Spring term.

Table II shows the distribution of class size by departments. The total number of classes is 2042 with a median class size of 38.2. The median class size ranges from 25.0 in Home Economics to 48.1 in Physical Education. The smallest classes are found in Home Economics, Industrial Arts, and Art. There are 188 classes in the junior high schools with enrollments of 50 or higher, the majority of which are in Physical Education and Music.

Table III compares the median class size by departments for Spring 1935 with the six previous semesters. The median class size for the current semester is not significantly different from the previous semester.

Table IV shows the class size distribution in subjects other than Physical Education and Music. The median for this group is 37.1.

Table V gives a summary of the Physical Education and Music classes. These classes meet two times per week rather than five times. The median class size for such classes is 43.6.

Table VI presents the number of classes and class size by schools. These medians range from 35.7 in Portola to 41.3 in Aptos, the median of all of the junior high school classes being 38.2.

Table VII gives a comparative summary of class size by school for a period of six semesters. The schools in which the increase in class size over the fall term is 1 pupil or greater are: Francisco, John Swett, Portola, and Roosevelt. Decreases are noticed at Everett and Horace Mann since the previous semester.

Table VIII shows the number of small classes in each school for a period covering six semesters. Since the Spring Term of 1932, the following decreases in small classes are noted:

<u>Size of Class</u>	<u>Spring 1932</u>	<u>Spring 1935</u>
Under 20	157	85
20-25	344	273
Less than 25	501	358

The total number of small classes in the Spring 1935 term is the same as that of the fall semester.

Table IX is a recapitulation of the preceding tables in that it shows the median class size by both schools and departments. From it one is able to determine the class size by subjects in any school, the median for the schools and the medians for each department throughout the junior high school organization.

Table II

Number of Classes and Class Size by Departments
Spring, 1935

Size of Class	Art	Commerce	English	Home Economics	Industrial Arts	Languages	Mathematics	Science	Social Science	Music	Physical Education	TOTAL
60 and over							1		1	24	77	103
55-59										11	13	24
50-54		4	6				3	4	5	14	25	61
45-49	1	6	68			10	54	30	77	20	38	304
40-44	1	24	116		2	17	71	42	119	23	25	440
35-39	4	22	62	3	3	9	44	24	45	15	27	258
30-34	21	17	24	20	36	21	27	8	23	13	27	237
25-29	36	5	13	43	86	20	13	1	5	16	21	259
20-24	25	2	9	50	95	25	7	2	9	30	19	273
15-19	7		2	14	12	4	2	2	1	13	7	66
10-14				1					1	11		14
5-9					1				1	3		5
0-4												
TOTAL	96	82	300	131	235	106	222	113	287	193	279	2044
Median	27.1	38.4	42.6	25.0	25.5	31.0	41.3	41.1	42.4	38.5	48.1	38.2

Table III

Median Class Size by Departments
Spring 1932 -- Spring 1935

Department	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934	Spring 1935
Art	24.6	26.0	24.3	25.9	25.8	27.6	27.1
Commerce	36.2	34.1	36.1	34.1	33.4	37.8	38.4
English	39.0	39.7	39.5	41.2	41.3	41.5	42.6
Home Economics	22.4	23.3	21.8	25.4	25.5	24.6	25.0
Industrial Arts	23.5	24.5	24.0	24.6	25.3	25.5	25.5
Languages	33.5	33.6	33.6	28.7	29.2	32.6	31.0
Mathematics	39.1	40.5	40.6	41.4	41.3	41.1	41.3
Science	39.8	40.1	41.0	38.8	40.5	41.4	41.1
Social Science	39.5	40.7	41.0	41.4	42.2	42.4	42.4
Music	41.6	40.5	40.0	41.2	42.1	37.6	38.5
Physical Educ.	41.8	42.3	41.6	43.9	48.6	49.7	48.1
Median of Totals	36.1	35.7	35.9	36.5	37.1	38.1	38.2

*Classes in Physical Education and Music, meeting two times per week, have been expressed in terms of five meetings per week in order to be in accordance with other classes.

Table IV
Class Size in Subjects Other Than Music
and Physical Education

Spring, 1935

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over							2			2
55-59										
50-54		3		6	1		1	3	8	22
45-49	23	26	6	44	9	29	21	62	26	246
40-44	68	72	52	42	16	16	21	55	50	392
35-39	22	49	37	15	14	7	29	13	30	216
30-34	17	55	24	17	9	23	13	19	20	197
25-29	28	45	41	21	13	10	18	27	19	222
20-24	21	18	14	46	15	11	37	47	15	224
15-19	9	2	3		2	8	10	7	5	46
10-14	1				1				1	3
5-9							1		1	2
0-4										
TOTAL	189	270	177	191	80	104	153	233	175	1572
Medians	39.2	36.5	35.9	38.8	35.0	35.0	34.0	40.3	39.4	37.1

Table V
Class Size in Music and Physical Education Classes

Spring, 1935

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over	16	10	22	6	6	6	10	11	14	101
55-59	2	7	3	3			2	1	6	24
50-54	3	8	5	4	7	1	5	1	5	39
45-49	4	12	3	7	1	8	3	13	7	58
40-44	4	6	2	6	4	3	3	12	8	48
35-39	5	4	3	8	4	1	3	7	7	42
30-34	4	9	2	8	5	2	3	2	5	40
25-29	2	12	2	10	2	1	1	3	4	37
20-24	2	9	3	15			3	13	4	49
15-19	5		3		1	3	3	3	2	20
10-14	5	1				3	1		1	11
5-9	1						1		1	3
0-4										
TOTAL	53	78	48	67	30	28	38	66	64	472
Median	43.1	43.3	56.7	35.3	43.8	45.6	41.6	42.1	45.0	43.6

Table VI
Number of Classes and Class Size by Schools

Spring, 1935

Size of Class	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
60 and over	16	10	22	6	6	6	12	11	14	103
55-59	2	7	3	3			2	1	6	24
50-54	3	11	5	10	8	1	6	4	13	61
45-49	27	38	9	51	10	37	24	75	33	304
40-44	72	78	54	48	20	19	24	67	58	440
35-39	27	53	40	23	18	8	32	20	37	258
30-34	21	64	26	25	14	25	16	21	25	237
25-29	30	57	43	31	15	11	19	30	23	259
20-24	23	27	17	61	15	11	40	60	19	273
15-19	14	2	6		3	11	13	10	7	66
10-14	6	1			1	3	1		2	14
5-9	1						2		2	5
3-4										
TOTAL	242	348	225	258	110	132	191	299	239	2044
Median	41.3	37.1	36.6	37.6	36.9	38.1	35.7	40.6	40.6	38.2

Table VII
Median Class Size by Schools
Spring 1932 -- Spring 1935

School	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934	Spring 1935
Aptos	39.7	39.5	39.4	39.3	40.5	41.1	41.3
Everett	35.8	36.4	36.0	36.1	35.5	38.2	37.1
Francisco	37.4	35.0	34.9	35.6	36.1	35.2	36.6
Horace Mann	37.9	37.9	38.6	38.8	38.1	39.8	37.6
James Lick	28.1	31.5	34.1	34.2	37.8	37.6	36.9
John Swett	31.6	30.5	32.6	33.5	36.0	34.2	38.1
Portola	30.1	28.3	30.7	29.7	30.0	34.3	35.7
Presidio	39.9	40.0	39.7	40.1	41.5	40.4	40.6
Roosevelt	36.3	36.0	36.2	38.8	38.1	39.6	40.6
TOTAL	36.1	35.7	35.9	36.5	37.1	38.1	38.2

TABLE VIII
Small Classes by Schools
Spring 1932 - Spring 1935

SCHOOL	Less than 20 pupils					20 to 24 pupils					Less than 25 pupils										
	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934	Spring 1935	Spring 1932	Fall 1932	Spring 1933	Fall 1933	Spring 1934	Fall 1934	Spring 1935							
Aptos	19	12	8	8	11	19	21	38	29	38	22	23	24	23	57	41	46	30	34	43	44
Everett	5	6	4	4	5	--	3	46	43	39	34	16	14	27	51	49	43	38	21	14	30
Francisco	15	8	14	5	13	16	6	19	54	43	35	22	26	17	34	62	57	40	35	42	23
Horace Mann	11	14	1	2	--	--	-	54	60	61	55	58	60	61	65	74	62	57	58	60	61
James Lick	21	16	13	-	7	4	4	25	27	20	22	10	15	15	46	43	33	22	17	19	19
John Swett	20	17	11	3	5	10	14	21	27	15	40	12	20	11	41	44	26	43	17	30	25
Portola	27	33	21	20	19	24	16	44	44	39	24	28	38	40	71	77	60	44	47	62	56
Presidio	23	15	19	10	14	8	10	46	55	37	32	34	51	60	69	70	56	42	48	59	70
Roosevelt	6	7	6	3	8	10	11	31	33	28	16	15	19	19	37	40	34	19	23	29	30
TOTAL	157	134	100	58	86	91	85	344	388	349	296	230	267	273	501	522	449	354	316	333	358

Table IX

Median Class Size by Schools and Departments
Spring, 1935

Department	Aptos	Everett	Francisco	H. Mann	J. Lick	J. Swett	Portola	Presidio	Roosevelt	TOTAL
Art	27.3	26.7	26.9	23.9	35.0	31.9	24.1	24.2	31.2	27.1
Commerce	40.0	43.4	35.0	38.0	40.8	42.5	35.6	33.5	39.2	38.4
English	41.9	41.0	38.5	43.5	40.0	41.2	39.4	45.4	42.3	42.6
Home Econ.	27.0	30.0	26.9	23.0	25.0	30.8	21.4	22.8	26.9	25.0
Ind. Arts	25.8	29.3	27.5	23.9	25.0	28.5	23.8	23.6	25.7	25.5
Languages	25.8	33.0	36.2	31.9	32.5	35.0	30.0	28.3	30.0	31.0
Mathematics	42.2	37.8	40.8	42.8	36.7	40.0	40.8	43.1	42.0	37.0
Music	33.9	29.2	47.5	33.3	47.5	42.5	30.0	43.1	44.4	38.5
Phys. Ed.	52.5	45.5	57.5	36.5	42.5	52.5	60.0	41.6	45.5	48.1
Science	42.0	41.5	41.1	43.5	--	45.0	40.0	44.3	41.4	41.1
Social Sci.	42.4	40.9	39.0	45.5	41.2	43.8	41.1	45.2	42.9	42.4
Median of Totals	41.3	37.1	36.6	37.6	36.9	38.1	35.7	40.6	40.6	38.2

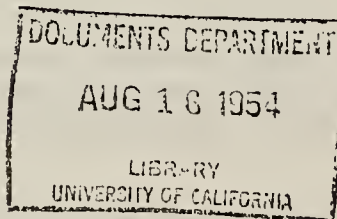
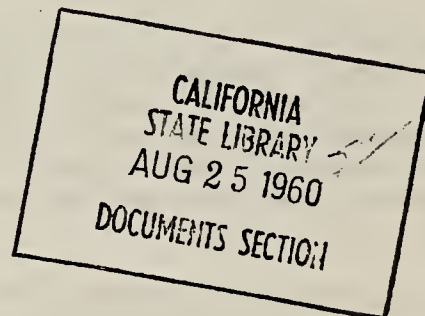
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(City and County) Board of Education

SAN FRANCISCO PUBLIC SCHOOLS
BUREAU OF RESEARCH, ADULT EDUCATION, AND EVENING SCHOOLS
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PROMOTION REPORT FOR SAN FRANCISCO ELEMENTARY SCHOOLS
FALL TERM, 1934.

Bulletin No. 69

April 1935



Superintendent of Schools
Edwin A. Lee

Director
Robert Floyd Gray

Assistants

Charles E. Purviance

Lillie Lewin

PROMOTION REPORT FOR ELEMENTARY SCHOOLS
FALL TERM, 1934.

The tables which follow present the data relative to promotion and non-promotion in grades 1 to 8 of the San Francisco Public Elementary Schools, for the Fall Term of 1934.

In order that variations in the rate of promotions might be noted, comparative summaries covering the fall term for the past five years are given.

Table I shows that in the fall term of 1934, over 95 per cent of the pupils of the San Francisco elementary schools were promoted. The girls exceed the boys by 2.2 per cent.

Table II presents the per cent of promotions by half grades over a five-year period. The highest promotion rate is noted in the high sixth grade. Only 1.1 per cent of the pupils of the high sixth grade failed to enter the junior high schools or the low seventh grade of elementary schools. The lowest promotion rate is in the low first grade. The most conspicuous increase in the promotion rate is at end of the high first grade. The increases in promotion after leaving the high first grade are fairly constant.

Table III gives a summary of double promotions over a five-year period. The consistent decrease in double promotions indicates improved organization.

Table IV refers to the junior primary only, which may be defined as a slowly moving group of low first grade pupils. Such pupils are given pre-primary training in order to gain reading readiness or to make other necessary adjustments before entering upon the regular first grade curriculum. Of this group 31.5 per cent were advanced to the regular first grade during the term and made a normal promotion. Over 55 per cent were promoted after one term in junior primary and one term in the low first grade. This promotion rate shows an increase over previous years.

Table V presents complete promotion data for each half grade for the fall term 1934. This table shows the number and per cent of promotions and non-promotions for boys and girls separately, as well as the totals for each half grade.

Table VI gives complete promotion data for the fall term 1934 by schools. The rate of promotions in regular elementary schools ranges from 82.2 per cent in the Rincon school to 100.0 per cent in the Columbus School. The schools promoting fewer than 90 per cent of the pupils, were the Burnett, Hillcrest, Irving M. Scott, Rincon and Sarah B. Cooper. The schools promoting 99 to 100 per cent of their pupils were the Bret Harte, Cabrillo, Columbus, Lafayette, Madison and West Portal.

SUMMARY AND CONCLUSIONS.

1. In the fall term of 1934, the San Francisco elementary schools had a promotion rate of 95.6 per cent, an increase over all previous years.
2. Girls continue to lead the boys in per cent of promotions.
3. Over a five-year period, the number of double promotions has decreased from 2.5 per cent to .9 per cent. This is a favorable trend and in keeping with the progressive policy of organizing homogeneous groups within each grade and modifying or enriching the curriculum in accordance with the ability of the group. By so doing, continuity of instruction is preserved, and social maladjustments averted.
4. The promotion rate varies from grade to grade, being lowest in the low first and highest in the high sixth. There are sound educational reasons for this trend, the policy of providing pupils with the fundamental tool subjects in the earlier years being most outstanding.
5. The wide difference in promotion rates of the various schools should be considered only when the factors bearing upon those schools are taken into consideration. A high or low promotion rate alone does not reflect favorably or unfavorably upon a school.

Among factors affecting the rate of promotion within a school, the most prominent are:

1. Social and environmental conditions.
2. Mental ability.
3. Physical condition.
4. Emotional factors.
5. Familiarity with English.
6. Earlier educational achievement.
7. Interest and effort.
8. Adaptability of curricular methods
and materials to pupil needs.

TABLE I.

Percent of Promotions in
Grades 1-8

(Comparative Summary)

Pupils	FALL TERM				
	1930-31	1931-32	1932-33	1933-34	1934-35
Boys	93.3	92.9	93.6	94.2	94.5
Girls	96.1	95.5	96.3	96.4	96.7
Total	94.7	94.2	94.9	95.2	95.6

TABLE II.

Percent of Promotions by
Half Grades

(Comparative Summary)

Grade	FALL TERM				
	1930-31	1931-32	1932-33	1933-34	1934-35
Low 1	87.6	89.6	90.1	91.8	91.9
High 1	89.3	91.6	92.1	92.9	94.3
Low 2	92.2	93.5	94.2	95.5	96.3
High 2	92.9	93.9	93.7	95.4	95.0
Low 3	94.7	94.9	95.9	95.4	96.2
High 3	93.8	95.7	95.6	95.3	95.1
Low 4	96.6	96.6	96.7	96.6	96.6
High 4	95.6	96.6	97.6	96.6	96.9
Low 5	96.6	96.7	96.8	97.1	97.2
High 5	96.5	96.0	96.9	97.7	97.8
Low 6	96.7	97.2	97.9	97.6	97.5
High 6	98.4	98.3	98.7	98.7	98.9
Low 7	97.3	95.7	98.2	97.3	97.1
High 7	97.3	96.0	98.0	97.7	97.3
Low 8	97.7	95.6	98.5	97.6	98.0
High 8	99.2	98.2	99.5	98.9	98.3
Total	94.7	94.2	94.9	95.2	95.6

TABLE III.

Percent of Double Promotions by
Half Grades

(Comparative Summary)

Grade	FALL TERM				
	1930-31	1931-32	1932-33	1933-34	1934-35
Low 1	1.5	1.9	1.4	.2	.5
High 1	2.2	2.7	1.4	.8	.7
Low 2	1.9	2.7	1.0	.9	.5
High 2	2.4	3.0	1.7	1.1	1.9
Low 3	2.4	2.5	1.9	.7	.9
High 3	4.3	3.1	1.0	1.3	1.1
Low 4	2.2	1.9	1.3	.8	.6
High 4	2.3	2.6	2.1	1.3	1.4
Low 5	1.3	1.8	1.7	1.6	.6
High 5	4.2	2.5	1.9	1.1	1.2
Low 6	2.0	1.9	1.5	1.6	1.6
High 6	3.0	2.5	1.8	1.1	.8
Low 7	2.0	6.7	.8	.5	.7
High 7	4.4	5.2	2.9	2.8	1.1
Low 8	2.2	.6	1.3	.5	1.1
High 8	1.3	1.8	1.1	.2	.5
Total	2.5	2.5	1.5	1.0	.9

TABLE IV.

Promotions and Non-Promotions in Junior Primary

Fall Term, 1934-35.

Junior Primary Pupils:	Number	Percent
Transferred from school	69	12.0
Retained in Jr. Primary	5	.9
Moved to Low First Grade	321	55.6
Promoted to High First Gr.	182	31.5
Total	577	100.0

Note: The junior primary for state accounting purposes, is considered a low first grade. Therefore, pupils moved from the junior primary to the low first grade are recorded as non-promoted. Junior primary pupils moved to the high first grade are counted as promoted low first grade pupils.

TABLE V.

NUMBER AND PER CENT OF ELEMENTARY PUPILS NOT PROMOTED, PROMOTED ONCE, AND PROMOTED MORE THAN ONCE, BY GRADES, FOR FALL TERM, 1934-1935.

GRADE	SEX	TOTAL	Number Not Promoted	Number Promoted Once	Number Promoted More Than Once	Total Promoted	Percent Not Promoted	Percent Promoted Once	Percent Promoted More Than Once	Total Percent Promoted
Jr. Pri.	B	296	194	102	--	102	65.5	34.5	--	34.5
	G	212	132	80	--	80	62.3	37.7	--	37.7
	T	508	326	182	--	182	64.2	35.8	--	35.8
L-1	B	1560	137	1417	6	1423	8.8	90.8	.4	91.2
	G	1493	111	1373	9	1382	7.4	92.0	.6	92.6
	T	3053	248	2790	15	2805	8.1	91.4	.5	91.9
H-1	B	1240	83	1154	3	1157	6.7	93.1	.2	93.3
	G	1114	51	1050	13	1063	4.6	94.2	1.2	95.4
	T	2354	134	2204	16	2220	5.7	93.6	.7	94.3
L-2	B	1628	79	1542	7	1549	4.9	94.7	.4	95.1
	G	1534	39	1487	8	1495	2.5	97.0	.5	97.5
	T	3162	118	3029	15	3044	3.7	95.8	.5	96.3
H-2	B	1221	82	1121	18	1139	6.7	91.8	1.5	93.3
	G	1111	35	1051	25	1076	3.2	94.6	2.2	96.8
	T	2332	117	2172	43	2215	5.0	93.1	1.9	95.0
L-3	B	1682	86	1583	13	1596	5.1	94.1	.8	94.9
	G	1487	35	1438	14	1452	2.4	96.7	.9	97.6
	T	3169	121	3021	27	3048	3.8	95.3	.9	96.2
H-3	B	1243	61	1169	13	1182	4.9	94.1	1.0	95.1
	G	1154	56	1085	13	1098	4.9	94.0	1.1	95.1
	T	2397	117	2254	26	2280	4.9	94.0	1.1	95.1
L-4	B	1725	79	1630	16	1646	4.6	94.5	.9	95.4
	G	1658	37	1616	5	1621	2.2	97.5	.3	97.8
	T	3383	116	3246	21	3267	3.4	96.0	.6	96.6
H-4	B	1339	53	1261	25	1286	4.0	94.2	1.8	96.0
	G	1292	28	1252	12	1264	2.2	96.9	.9	97.8
	T	2631	81	2513	37	2550	3.1	95.5	1.4	96.9
L-5	B	1665	59	1595	11	1606	3.5	95.8	.7	96.5
	G	1642	34	1600	8	1608	2.1	97.4	.5	97.9
	T	3307	93	3195	19	3214	2.8	96.6	.6	97.2
H-5	B	1373	41	1311	21	1332	3.0	95.5	1.5	97.0
	G	1316	18	1286	12	1298	1.4	97.7	.9	98.6
	T	2689	59	2597	33	2630	2.2	96.6	1.2	97.8

Table V,
Number and Per Cent of Elementary Pupils
Not Promoted, Promoted Once, and Promoted
More Than Once, By Grades, For Fall Term,
1934-1935, (Continued).

GRADE	SEX	TOTAL	Number Not Promoted	Number Promoted Once	Number Promoted More Than Once	Total Promoted	Percent Not Promoted	Percent Promoted Once	Percent Promoted More Than Once	Total Percent Promoted
L-6	B	1650	59	1554	37	1591	3.6	94.2	2.2	96.4
	G	1589	23	1552	14	1566	1.4	97.7	.9	98.6
	T	3239	82	3106	51	3157	2.5	95.9	1.6	97.5
H-6	B	1405	19	1379	7	1386	1.4	98.1	.5	98.6
	G	1391	12	1363	16	1379	.9	98.0	1.1	99.1
	T	2796	31	2742	23	2765	1.1	98.1	.8	98.9
L-7	B	663	33	624	6	630	5.0	94.1	.9	95.0
	G	670	6	661	3	664	.9	98.7	.4	99.1
	T	1333	39	1285	9	1294	2.9	96.4	.7	97.1
H-7	B	486	21	460	5	465	4.3	94.7	1.0	95.7
	G	524	6	512	6	518	1.1	97.7	1.2	98.9
	T	1010	27	972	11	983	2.7	96.2	1.1	97.3
L-8	B	686	25	649	12	661	3.6	94.6	1.8	96.4
	G	749	4	742	3	745	.5	99.1	.4	99.5
	T	1435	29	1391	15	1406	2.0	96.9	1.1	98.0
H-8	B	510	11	497	2	499	2.2	97.4	.4	97.8
	G	528	7	518	3	521	1.3	98.1	.6	98.7
	T	1038	18	1015	5	1020	1.7	97.8	.3	98.3
Totals	B	20372	1122	19048	202	19250	5.5	93.5	1.0	94.5
	G	19464	634	18666	164	18830	3.3	95.9	.8	96.7
	T	39836	1756	37714	366	38080	4.4	94.7	.9	95.6

PERCENT OF ELEMENTARY PUPILS PROMOTED, NOT PROMOTED,
BY SCHOOLS, FALL TERM 1934-1935.

<u>School</u>	<u>Per Cent Not Promoted</u>			<u>Per Cent Promoted</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
Adams	10.2	6.7	8.6	89.8	93.3	91.4
Alamo	1.0	1.6	1.3	99.0	98.4	98.7
Alvarado	2.0	1.0	1.5	98.0	99.0	98.5
Andrew Jackson	3.3	1.7	2.5	96.7	98.3	97.5
Argonne	3.7	.8	2.2	96.3	99.2	97.8
Bay View	3.5	1.7	2.6	96.5	98.3	97.4
Bret Harte	1.4	.7	1.0	98.6	99.3	99.0
Bryant	3.0	3.9	3.4	97.0	96.1	96.6
Burnett	15.9	9.9	13.2	84.1	90.1	86.8
Cabrillo	--	.6	.3	100.0	99.4	99.7
Cleveland	9.1	5.2	7.2	90.9	94.8	92.8
Columbus	--	--	--	100.0	100.0	100.0
Commodore Sloat	4.4	1.7	3.1	95.6	98.3	96.9
Commodore Stockton	6.5	3.0	4.8	93.5	97.0	95.2
Daniel Webster Elem.	7.2	1.9	4.5	92.8	98.1	95.5
Douglas	14.4	5.3	9.8	85.6	94.7	90.2
Dudley Stone	4.5	1.7	3.1	95.5	98.3	96.9
Edison	6.2	2.0	4.2	93.8	98.0	95.8
Edward R. Taylor	8.4	4.4	6.5	91.6	95.6	93.5
Emerson	5.5	8.4	6.9	94.5	91.6	93.1
Excelsior	6.8	3.2	5.0	93.2	96.8	95.0
Fairmount	3.6	1.6	2.6	96.4	98.4	97.4
Farragut	3.0	1.6	2.3	97.0	98.4	97.7
Francis Scott Key	4.8	3.2	4.0	95.2	96.8	96.0
Franklin	6.1	6.9	6.5	93.9	93.1	93.5
Frank McCoppin	1.5	1.1	1.3	98.5	98.9	98.7
Fremont	5.6	3.3	4.5	94.4	96.7	95.5
Garfield	9.1	7.7	8.3	90.9	92.3	91.7
Geary	3.9	3.0	3.5	96.1	97.0	96.5
George Peabody	7.1	2.3	4.6	92.9	97.7	95.4
Glen Park	7.9	5.0	6.6	92.1	95.0	93.4
Golden Gate	4.3	1.2	2.8	95.7	98.8	97.2
Grant	3.4	1.3	2.5	96.6	98.5	97.5
Grattan	3.9	2.0	3.0	96.1	98.0	97.0
Guadalupe	5.2	2.5	3.8	94.8	97.5	96.2
Hancock	1.4	4.1	2.7	98.6	95.9	97.3
Hawthorne	8.5	3.6	6.2	91.5	96.4	93.8
Hillcrest	11.5	10.9	11.2	88.5	89.1	88.8
Irving M. Scott	16.0	8.9	12.5	84.0	91.1	87.5
Jean Parker	8.6	6.2	7.6	91.4	93.8	92.4
Jefferson	3.3	2.7	3.0	96.7	97.3	97.0
John Muir	5.2	3.9	4.5	94.8	96.1	95.5
Junipero Serra	4.6	5.7	5.2	95.4	94.3	94.8
Kate Kennedy	2.7	1.8	2.3	97.3	98.2	97.7
Lafayette	.3	.5	.4	99.7	99.5	99.6

Table VI,
Percent of Elem. Pupils
Promoted, and Not Promoted,
By Schools, Fall Term, 1934-1935,
(Continued).

<u>School</u>	<u>Per Cent Not Promoted</u>			<u>Per Cent Promoted</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
Laguna Honda	3.3	3.1	3.2	96.7	96.9	96.8
Lawton	6.2	1.8	4.3	93.8	98.2	95.7
Le Conte	7.4	5.3	6.4	92.6	94.7	93.6
Longfellow	4.7	4.1	4.4	95.3	95.9	95.6
Madison	.8	1.2	1.0	99.2	98.8	99.0
Marshall	10.3	6.9	8.7	89.7	93.1	91.3
McKinley	4.4	2.6	3.6	95.6	97.4	96.4
Monroe	8.1	3.1	5.5	91.9	96.9	94.5
Pacific Heights	4.5	2.5	3.5	95.5	97.5	96.5
Parkside	1.0	1.4	1.2	99.0	98.6	98.8
Patrick Henry	7.1	4.2	5.7	92.9	95.8	94.3
Paul Revere	6.1	3.1	4.6	93.9	96.9	95.4
Raphael Weill	3.8	1.8	2.8	96.2	98.2	97.2
Redding	6.4	1.2	3.9	93.6	98.8	96.1
Rincon	21.4	14.6	17.8	78.6	85.4	82.2
Sanchez	7.1	3.5	5.2	92.9	96.5	94.8
San Miguel	4.1	1.5	2.8	95.9	98.5	97.2
Sarah B. Cooper	18.5	12.2	15.6	81.5	87.8	84.4
Sheridan	4.1	3.0	3.6	95.9	97.0	96.4
Sherman	3.6	2.2	2.9	96.4	97.8	97.1
Spring Valley	7.6	3.8	5.7	92.4	96.2	94.3
Starr King	10.0	6.4	8.3	90.0	93.6	91.7
Sunnyside	7.8	3.0	5.3	92.2	97.0	94.7
Sutro	5.1	2.5	3.9	94.9	97.5	96.1
Twin Peaks	--	2.4	1.2	100.0	97.6	98.8
Visitation Valley	7.5	4.3	5.9	92.5	95.7	94.1
Washington Irving	8.0	6.0	7.3	92.0	94.0	92.7
West Portal	1.6	.3	1.0	98.4	99.7	99.0
Winfield Scott	4.0	1.8	2.9	96.0	98.2	97.1
Yerba Buena	6.9	2.9	5.1	93.1	97.1	94.9

SPECIAL SCHOOLS

Buena Vista	10.1	13.7	11.7	89.9	86.3	88.3
Children's Hospital	--	--	--	100.0	100.0	100.0
Gough	26.7	16.7	20.5	73.3	83.3	79.5
San Francisco Hospital	12.0	9.1	10.6	88.0	90.9	89.4
Shriners' Hospital	40.9	29.6	34.7	59.1	70.4	65.3
Sunshine	10.7	6.6	8.5	89.3	93.4	91.5
Totals	5.5	3.3	4.4	94.5	96.7	95.6

San Francisco (City & County) Board of Education.

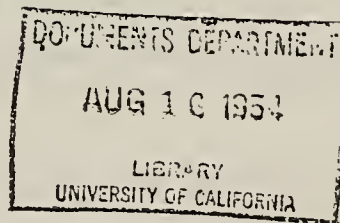
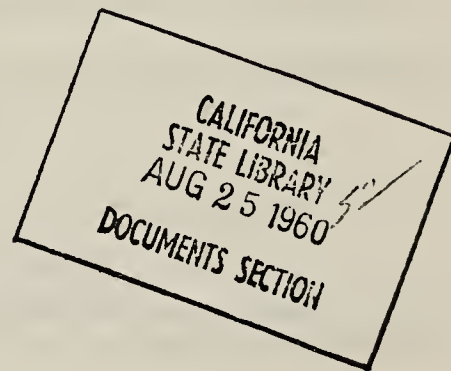
~~Office of the Superintendent of Schools~~
Bureau of Research, Adult Education, and Evening Schools

RESUME OF ACTIVITIES

August 1933 - June 1935

Bulletin No. 70

June 1935



Superintendent of Schools
Edwin A. Lee

Director
Robert Floyd Gray

Assistants

Lillie Lewin

Charles E. Purviance

Office of the Superintendent of Schools
Bureau of Research, Adult Education, and Evening Schools

RESUME OF ACTIVITIES

August 1933 - June 1935

A constant increase in the demand for objective data by the Board of Education and the Superintendent and his staff makes the work of the Bureau of Research, Adult Education, and Evening Schools very significant. The bureau's activities during the past two years have been more diversified than in previous years. The range and character of the work done by the bureau can be ascertained from the list of activities which follows:

The Bureau of Research, Adult Education, and Evening Schools has participated in the following functions during the years 1933-1935:

- I. Compilation and interpretation of Annual, Federal, State and City Reports.
- II. Compilation and interpretation of Enrollment and Attendance Statistics.
- III. Boundary Surveys.
- IV. Personnel Research.
- V. Curriculum Construction and Revision.
- VI. Mental and Achievement Surveys.
- VII. Administrative Surveys and Studies.
- VIII. Test Construction.
- IX. Training of Teaching Staff in Construction of Objective Tests.
- X. Training of Teaching Staff in Utilization and Application of the Results of Standard Tests.
- XI. Publication of Research Bulletins.
- XII. Supervision of Adult Education.
- XIII. Supervision of Evening Schools.
- XIV. Supervision of Americanization.
- XV. Compilation of Non-Resident Pupil Lists.

The following routine studies are continuous, annual, or semi-annual in character and have been carried on as usual during the school years 1933-1935:

- I. Compilation of Reports and Surveys:
 1. Preparation of Principals' October State Report.
 2. Preparation of Superintendent's Annual Report.
 3. Resume of activities for the U.S. Bureau of Education.
 4. Resume of research studies for Secondary Quarterly.
 5. A continuous survey of enrollment trends.
 6. Survey of class size in
 - (a) Elementary schools
 - (b) Junior high schools (semi-annual)
 - (c) Senior high schools (semi-annual)
 - (d) Evening schools
 7. Adult Education Report to the State (annual)
 8. Classification of Junior High School pupils according to ability and achievement (semi-annual)

9. Promotion Reports (semi-annual).
10. Checking and Revision of School Spot Maps and Superintendent's Master Map - (Annual).
11. Continuous program of measurement.

II. Enrollment and Attendance

1. Comparative monthly summaries.
2. Revision of forms for recording evening school attendance.
3. Revision of method of reporting evening school attendance.
4. Interpretation of attendance statistics for staff officers and principals.
5. Continuous survey of enrollment trends.
6. Monthly check and recordation of city wide school attendance.
7. Preparation of contracts for non-resident students.
8. Correspondence relative to non-resident pupil contracts and collections sent out and followed up.
Collections made.
9. Assisting general auditors.

III. Boundary Studies:

1. Yerba Buena
2. Starr King- Bryant- Patrick Henry
3. Lawton- Francis Scott Key- Jefferson
4. Bay View- Burnett- Portola
5. Farragut- Commodore Sloat

IV. Personnel Research:

1. Survey of leaves of absence
2. Survey of sabbatical leave
3. Survey to determine need for substitute teachers in the schools
4. Development of technique for evaluating teachers' credentials in competitive examination
5. Analysis of teachers' competitive examination results

V. Curriculum Revision: (Cooperating with Chief Deputy Superintendent, A. J. Cloud).

1. Report on Curricular interests of junior college students.

VI. Mental and Achievement Surveys:

1. Determination of eligibility of superior under-age pupils to first grade
2. Measurement of ability of pupils entering the low first grade
3. Survey of ability and achievement of pupils leaving the high third grade
4. Survey of ability and achievement of pupils leaving the high sixth grade
5. Survey of ability of pupils entering junior and senior high schools
6. Classification of pupils entering junior high school into homogeneous instructional groups

7. Prediction of success in first year algebra, English, modern languages and social studies
8. Survey of spelling ability in junior high schools
9. Survey of musical accomplishment of junior high school entrants
10. Survey of educational needs of over-age and low ability pupils in junior high schools
11. Development of a testing program for guidance purposes at the Balboa High School
12. Study of over-age pupils and factors contributing to over-ageness
13. Administration and evaluation of high school special entrance examination
14. Revision of elementary testing programs
15. Preparation of individual growth chart for kindergarten pupils
16. Guidance of principals and teachers in individual programs involving tests and measurements
17. Development of junior high school testing program

VII. Test Construction:

1. Development of examination on United States Constitution for teachers.
2. Publisher's Revision of Junior High School Achievement Tests in social science.

VIII. Administrative Studies and Surveys:

1. Survey of Sunset District to determine nature and location of proposed new schools
2. Survey of Girls High School- A complete survey- Geographical- Racial- Mental- to determine character of the school population
3. Survey of schools sending pupils to Girls High School, junior high school department
4. Population study with pin map to determine 10-11-12 grade pupils living in Richmond area. Estimate of probable attendance at the George Washington High School
5. Survey to determine best site for the proposed new Francis Scott Key School.
6. Survey of Bay View- Burnett- Portola Junior High School traffic- with pin map
7. Survey to ascertain methods of distributing Bay View children to adjacent schools, with pin map
8. Survey of Visitacion Valley school area and traffic survey with pin map
9. Survey of enrollment at proposed Bernal Junior High school based on contributing schools
10. Enrollment, population and pin map study of the Glen Park District
11. Survey of Monroe school area as a possible location for a junior high school
12. Study of ways and means to bring about a better articulation of San Francisco senior and junior high schools.
13. Survey of teachers' marks in the San Francisco junior high schools
14. Determination of junior high school districts and boundaries and of contributing schools in such districts

15. Study of personal expenditures made by principals, vice-principals, teachers and librarians for materials used in the schools
 - (a) in high schools
 - (b) in junior high schools
 - (c) in elementary schools
16. Survey and analysis of secretarial and clerical work in the schools and in the Board of Education offices
17. Survey of duties of heads of departments in San Francisco high schools
18. Survey to determine relative efficiency of married and single teachers
19. Estimate of percent of elementary principal's time given to clerical work
20. Elementary report card committee. Development of a controlled experiment to obtain a new elementary report card in San Francisco
(To continue through 1935-1936)
21. Study of recesses in the elementary schools with development of alternate plans
22. Promotion report revision committee and findings
23. Continuous survey of the comparative costs of operating the evening schools
24. Report on testing programs in junior colleges
25. Survey of seating capacity of San Francisco schools
26. Cooperation with S.E.R.A. in educational projects and surveys
27. Supervision of city wide pin map survey conducted by the S.E.R.A.
28. Survey of Filipino student enrollment

IX. Miscellaneous

1. Financial and administrative questionnaires answered. Assisted by accounting department
2. Miscellaneous and routine questionnaires answered
3. Assisted at December teachers' competitive examinations
4. Preliminary trade and industrial education survey with recommendations
5. Survey of San Francisco occupational activity based on figures of U.S. Census 1930
6. Developed program for administrative and research section of the California Teachers' Association, West Bay Branch, December 1934.
7. Assisted in formulation of program of Northern California section of California Research Association Conference San Francisco, April 1935.
8. Preparation of Publicity materials for civic organizations and for public schools weeks
9. Development of brief to show technical and educational character of school research work
10. Preparation and distribution of information relative to the \$3,000,000 Bond issue for new schools
11. Preparation of a limited number of bibliographies in teachers' library for various administrative studies
12. California Teachers' Association membership col-

- lections(annual)
 13. Assisted with transfers of high school students
 14. Survey to determine value of Pathfinder Lessons
 15. Federal Milk Survey

During the past two years the Bureau of Research, Adult Education, and Evening Schools has published and distributed the following bulletins:

<u>No.</u>	<u>Date</u>	<u>Title</u>	<u>No. of Pages</u>
55	September 1933	Resume of Activities-August 1932 to June 1933	5
56	September 1933	Class size- San Francisco High Schools Fall Term, 1933-1934	8
57	October 1933	Class Size-San Francisco Junior High schools	6
58	October 1933	Promotion and Non-Promotion of Elementary Pupils-Spring Term, 1932-1933	5
59	November 1933	Age and Ability of Junior High School Pupils, End of Spring Term, 1933	8
60	December 1933	Survey of Age-Grade and Pupil Progress in San Francisco Junior High Schools	15
61	February 1934	Class size-San Francisco High Schools Spring Term, 1933-1934	8
62	March 1934	Promotion Report for San Francisco Elementary Schools, Fall Term, 1933	8
63	March 1934	Class size- San Francisco Junior High Schools, Spring Term, 1934	7
64a	August 1934	Teachers' Grades- Junior High Schools	9
64	October 1934	Promotion Report for San Francisco Elementary Schools, Spring Term, 1934	8
65	October 1934	Class size- San Francisco Junior High Schools	8
66	November 1934	Class size- San Francisco High Schools Fall Term, 1934-1935	10
67	March 1935	Class size- San Francisco Junior High Schools, Spring Term, 1935	8
68	March 1935	Class size- San Francisco High Schools Spring Term, 1934-1935	10
69	April 1935	Promotion Report for San Francisco Elementary Schools, Fall Term, 1934	8

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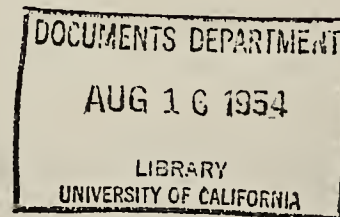
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CLASS SIZE

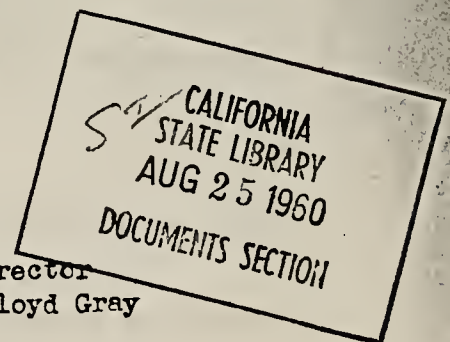
SAN FRANCISCO HIGH SCHOOLS

Fall Term, 1935-1936



Bulletin No. 72

October, 1935



Superintendent of Schools
Edwin A. Lee

Director
Robert Floyd Gray

John C. McGlade, Deputy Superintendent

Assistants

Lillie Lewin

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EXTRACT OF MINUTES OF BOARD OF EDUCATION MEETING
VOL. 18 B, 1932 - PAGES 685 and 686.

Credentialed
Personnel
and Ratio of
Students to
Teachers
Senior High
Schools

RESOLVED: That the credentialed personnel in high schools be determined as follows:

The basic enrollment figure to be used for determining the number of credentialed personnel for any term shall be the end of the month enrollment of the first month of the preceding term. In the event of either exceptional increases or decreases at the beginning of a term, adjustment shall then be made according to the ratio herein below established.

Further, That the ratio of students to teachers shall be as follows:

HIGH SCHOOL OF COMMERCE:

1 teacher per 31 students or major fraction of 31 students

BALBOA HIGH SCHOOL:

1 teacher per 30 students or major fraction of 30 students

GALILEO
LOWELL
MISSION
POLYTECHNIC
HIGH SCHOOLS

1 teacher per 29 students or major fraction of 29 students

GIRLS HIGH

1 teacher per 27 students or major fraction of 27 students

Further, That the rule for determining the number of credentialed personnel shall be as follows:

(a) The number of teachers equals the enrollment divided by the ratio. If the quotient is fractional, use the nearest whole number.

(b) The personnel allowed for administration, supervision, library duty and other co-teaching functions shall be a maximum of ten percent of the quotient derived under (a) above, using the nearest whole number.

(c) The total number of credentialed personnel equals the sum of (a) and (b). This sum shall include the R.O.T.C. instructions assigned to the school, but does not include credentialed personnel at large.

Further, That the above ratios are the averages that must be maintained for the school as a whole; provided that no class shall be maintained with an enrollment of fewer than 20 pupils except by special permission of the Deputy Superintendent in charge of high schools. A written report of such cases shall be submitted to the Board of Education by the Superintendent at the end of the first school month of each term.

Further, That high school teachers shall have assigned duties for six clock hours per day. Teachers of prepared subjects shall teach a minimum of twenty-four periods per week, and teachers of unprepared subjects a minimum of twenty-eight periods per week. No department head shall be relieved of more than one teaching class.

OFFICE OF THE SUPERINTENDENT OF SCHOOLS
Bureau of Research, Adult Education, and Evening Schools
October, 1935

CLASS SIZE
SAN FRANCISCO SENIOR HIGH SCHOOLS
FALL TERM, 1935-1936

The data which formed the basis of this study were derived from the teacher programs submitted by the teachers of the high schools in September, 1935.

Classes in all high schools meet five times a week. All schools include grades 9 to 12, except Mission, which has grades 10 to 12, and Girls High School which has grades 7 to 12.

TABLE I
Class Size by Departments for All Schools

Class Size	Art	Commercial	English	Language	Household Arts	Industrial Arts	Mathematics	Mechanical Drawing	Music	Physical Education-Boys	Physical Education-Girls	Science	Social Science	R.O.T.C.	TOTAL
50 or over		2							10	72	74		1	13	172
45-49	1	9	3	4			1		2	25	36		13	6	100
40-44		103	44	39	3		45		9	30	40	2	64	3	402
35-39	6	120	207	74	16		87		6	10	14	17	123	3	692
30-34	41	68	135	86	52	47	53	9	13	3	9	84	73	1	674
25-29	46	60	64	68	33	72	36	51	18	5	14	120	29	1	617
20-24	32	26	39	48	34	24	11	29	29		5	46	14	1	338
15-19	3	1	8	5	1	1	2		7		1	6			35
10-14	1			2	1		2		8			1			15
5-9									1						1
0-4															
TOTAL	130	389	500	326	140	144	237	89	103	154	193	276	337	28	3046
MEDIAN	28.1	36.6	35.0	32.3	30.0	28.2	35.8	26.5	26.8	49.0	46.8	28.5	37.1	49.1	33.8

47.9

On the last line of the table, the median class-size is shown for each department and for all departments, ranging from 26.5 in mechanical drawing to 49.1 in R.O.T.C. with 33.8 as the median class-size for all classes. One may say that about one-half of the classes in the high schools have more, and about one-half of the classes have less than 33.8 pupils.

The above tabulation also shows that there are 51 classes with less than 20 pupils, and 338 classes having from 20 to 24 pupils. These small classes are distributed among the various departments as shown in Table II, following.

TABLE II

Small Classes by Departments

Department	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Academic		
English	8	39
Social Science	-	14
Mathematics	4	11
Language	7	48
Science	7	46
Total Academic	26	158
Non-Academic		
Commercial	1	26
Industrial Arts	1	24
Household Arts	2	34
Art	4	32
Mechanical Drawing	-	29
Music	16	29
Physical Education	1	5
R.O.T.C.	-	1
Total Non-Academic	25	180
GRAND TOTAL	51	338

Table III which follows is a distribution of class size by schools,

TABLE III

Class Size by Schools

Class Size	Balboa	Com-merce	Gali-leo	Girls	Lcwell	Mission	Poly-technic	Total
50 and over	37	26	36	1	18	24	30	172
45- 49	15	21	11	4	8	23	18	100
40- 44	58	86	67	17	49	54	71	402
35- 39	141	132	121	23	76	103	96	692
30- 34	123	93	92	43	116	122	85	674
25- 29	135	55	91	53	72	80	131	617
20- 24	38	34	56	81	36	30	63	338
15- 19	1	2	7	17	1	3	4	35
10- 14		3	5	5	1		1	15
5- 9						1		1
1- 4								
TOTAL	548	452	486	244	377	440	499	3046
MEDIAN	34.0	36.0	34.5	26.8	33.3	34.3	32.9	33.8

On the last line of the foregoing table is shown the median class size for each school, ranging from 26.8 at Girls to 36.0 at Commerce.

The 51 classes with less than 20 pupils and the 338 classes having from 20 to 24 pupils are distributed by schools as follows: The classes of the 7th and 8th grades at Girls High School are included in this study. The classes of school nurses are not counted in this study in any place.

TABLE IV
Small Classes by Schools

School	Number of Classes with less than 20 pupils	Number of Classes having from 20 to 24 pupils
Balboa	1	38
Commerce	5	34
Galileo	12	56
Girls	22	81
Lowell	2	36
Mission	4	30
Polytechnic	5	63
TOTAL	51	338

Table V is a tabulation showing the number of classes for each department, in academic departments, in commercial departments, in non-academic departments excluding commercial classes, in physical education, and in the total of all classes by schools.

TABLE V
Number of Classes in Each Department
by Schools

Department	Balboa	Commerce	Galileo	Girls	Lowell	Mission	Poly-tech.	Total
<u>ACADEMIC</u>								
English	90	71	83	42	67	69	78	500
Social Science	50	44	54	24	53	60	52	337
Mathematics	41	25	51	18	37	31	34	237
Modern Language	55	46	62	27	66	30	40	326
Science	48	34	49	13	58	25	49	276
TOTAL ACADEMIC	284	220	299	124	281	215	253	1676
<u>NON-ACADEMIC</u>								
Commercial	70	107	54	29	11	74	44	389
Industrial Arts	29	10	29	-	-	35	41	144
Household Arts	39	22	13	29	-	20	17	140
Art	18	14	12	20	15	16	35	130
Mech. Drawing	17	7	17	-	4	17	27	89
Music	23	12	10	11	16	11	20	103
R.O.T.C.	5	4	6	-	5	3	5	28
TOTAL NON-ACADEMIC	201	176	141	89	51	176	189	1023
Physical Edu.	63	56	46	31	45	49	57	347
GRAND TOTAL	548	452	486	244	377	440	499	3046

Table VI is a similar tabulation, showing the median class-size for each department in academic departments, in commercial departments, in non-academic departments, excluding commercial, in physical education, and in total of all classes by schools.

TABLE VI

Median Class-Size by Schools and by Departments

Fall Term - 1935-1936

Department	Falboa	Commerce	Galileo	Girls	Lowell	Mission	Poly-technic	TOTAL
English	34.0	36.9	35.0	27.9	34.8	35.9	35.9	35.0
Social Science	38.5	39.1	37.1	30.8	33.8	38.1	37.2	37.1
Mathematics	36.4	36.2	37.3	28.3	35.8	34.3	35.8	35.8
Modern Language and Latin	33.5	33.6	35.2	23.6	30.5	28.3	32.5	32.3
Science	27.9	32.1	30.1	24.5	28.7	27.5	27.4	28.5
Academic Median	34.4	36.0	34.6	26.9	32.4	35.1	33.9	33.9
Commercial	36.2	38.2	36.0	29.6	38.7	35.4	40.7	36.6
Industrial Arts	31.1	22.6	26.7	-	-	31.6	26.8	28.2
Household Arts	27.2	33.5	29.5	23.6	-	32.5	31.2	30.0
Art	28.5	28.1	26.2	22.7	30.8	31.8	29.3	28.1
Mech. Drawing	27.9	22.0	22.6	-	32.0	27.1	26.8	26.5
Music	26.2	25.0	20.0	22.5	30.0	37.5	25.0	26.8
R.O.T.C	42.5	47.5	52.0	-	37.5	52.0	50.8	49.1
Non-Academic Median	28.6	25.9	26.2	23.1	31.4	31.5	27.6	28.2
Physical Educ.	50.6	47.5	51.0	35.5	45.3	47.1	47.5	47.9
MEDIAN FOR ALL	34.0	36.0	34.5	26.8	33.3	34.3	32.9	33.8

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A ranking of schools according to median class-size in academic classes, non-academic classes, in commercial classes, in physical education, and in all classes is shown by Table VII, which follows:

TABLE VII*

Schools Ranked According to Median Class-Size in Academic and Non-Academic Classes

Academic			Non-Academic		
School	Median Class Size	Rank	School	Median Class Size	Rank
Commerce	36.0	1	Mission	31.5	1
Mission	35.1	2	Lowell	31.4	2
Galileo	34.6	3	Balboa	28.6	3
Balboa	34.4	4	Polytechnic	27.6	4
Polytechnic	33.9	5	Galileo	26.2	5
Lowell	32.4	6	Commerce	25.9	6
Girls	26.9	7	Girls	23.1	7
Average	33.9		Average	28.2	

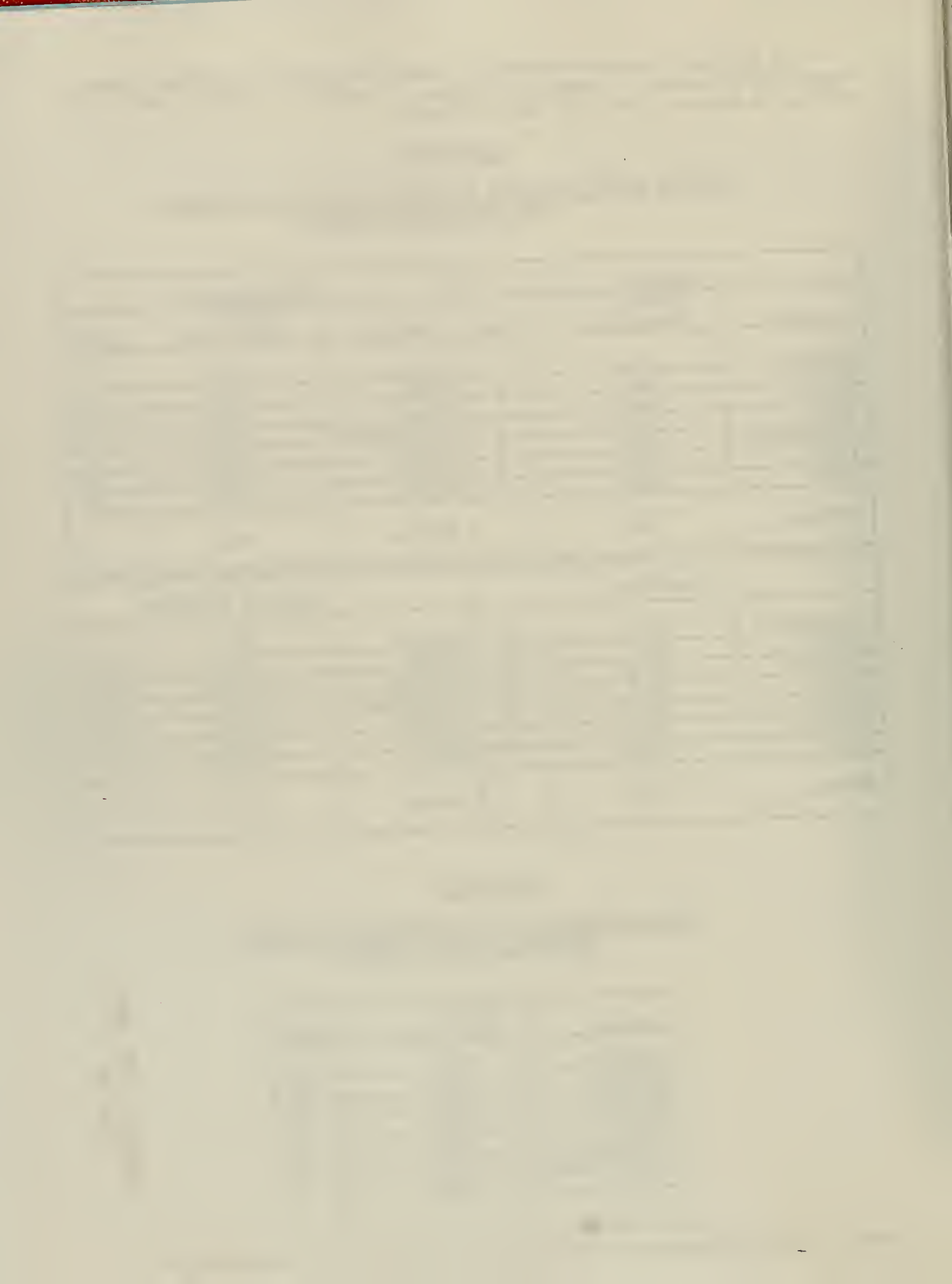
Commercial			Physical Education		
Polytechnic	40.7	1	Galileo	51.0	1
Lowell	38.7	2	Balboa	50.6	2
Commerce	38.2	3	Commerce	47.5	3.5
Balboa	36.2	4	Polytechnic	47.5	3.5
Galileo	36.0	5	Mission	47.1	5
Mission	35.4	6	Lowell	45.3	6
Girls	29.6	7	Girls	35.5	7
Average	36.6		Average	47.9	

TABLE VIII

Median Class-Size for all Classes with Schools Arranged in Order of Rank

School	Median Class Size	Rank
Commerce	36.0	1
Galileo	34.5	2
Mission	34.3	3
Balboa	34.0	4
Lowell	33.3	5
Polytechnic	32.9	6
Girls	26.8	7
Average	33.8	

*Note: In making comparisons, the type and character of the school must be



considered. The number of classes in the departments of each school (see Table V) is also a factor.

Table IX shows the median class-size by departments in San Francisco for nine terms; fall 1931-32; spring 1931-32; fall 1932-33; spring 1932-33; fall 1933-34; spring 1933-34; fall 1934-35; spring 1934-35, and fall 1935-36.

TABLE IX
Median Class-Size by Departments Compared for
Nine Terms

DEPARTMENT	Fall 1931-32	Spring 1931-32	Fall 1932-33	Spring 1932-33	Fall 1933-34	Spring 1933-34	Fall 1934-35	Spring 1934-35	Fall 1935-36
Art	26.0	26.6	28.4	28.4	27.1	27.6	27.2	28.9	28.1
Commercial	34.4	33.3	37.3	37.5	36.9	36.7	36.4	37.4	36.6
English	32.6	32.5	33.5	34.2	34.1	34.9	36.4	34.8	35.0
Language	30.2	30.9	31.7	32.1	32.7	31.3	31.4	31.8	32.3
Household Arts	25.9	26.6	29.0	29.0	28.2	28.0	27.5	28.3	30.0
Industrial Arts	25.9	27.1	26.9	27.9	28.9	28.2	28.6	27.7	28.2
Mathematics	32.1	32.3	34.1	35.3	34.1	34.7	34.5	34.5	35.8
Mechanical Drawing	24.1	25.0	26.2	26.9	24.6	24.8	26.7	27.1	26.5
Music	31.7	30.0	32.9	33.3	31.6	33.0	27.6	29.0	26.8
Physical Ed.	42.5	42.8	46.1	45.9	46.5	46.8	48.3	46.8	47.9
Science	26.2	26.9	27.9	27.9	27.4	27.6	27.2	27.5	28.5
Soc. Science	34.9	35.0	37.4	37.5	36.4	36.6	36.6	36.5	37.1
R.O.T.C	-	-	47.5	50.2	51.2	50.5	50.0	51.2	49.1
Median of all Departments	31.3	31.5	33.4	33.8	33.3	33.4	32.9	33.6	33.8

Latin is included in Language in all terms.

If all the high school classes were distributed in five class-sizes: namely, classes with less than 20 pupils, 20 to 24 pupils, 25 to 29 pupils, 30 to 34 pupils, and more than 35 pupils, they would appear as follows in Tables X and XI. Table X shows the distribution by number of classes, by schools; and Table XI shows the percentage of classes in each of the five class-sizes by schools.

TABLE X
Number of Classes in Each Class-Size

Size of Class	Balboa	Commerco	Galileo	Girls	Lowell	Mission	Poly- technic	TOTAL
35 or over	251	265	235	45	151	204	215	1366
30-34	123	93	92	43	116	122	85	674
25-29	135	56	91	53	72	80	131	617
20-24	38	34	56	81	38	30	63	338
Less than 20	1	5	12	22	2	4	5	51
TOTAL	548	452	486	244	377	440	499	3046

TABLE XI

Percentage of Classes in Each Class-Size

Size of Class	Balboa	Commerce	Galileo	Girls	Lowell	Mission	Poly-technic	TOTAL
35 or over	45.80	58.63	48.35	18.44	40.06	46.37	43.09	44.85
30-34	22.42	20.58	18.93	17.63	30.77	27.73	17.03	22.13
25-29	24.60	12.17	18.73	21.72	19.09	18.19	26.25	20.26
20-24	7.00	7.52	11.52	33.19	9.55	6.81	12.63	11.09
Less than 20	.18	1.10	2.47	9.02	.53	.90	1.00	1.67
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

The following figures show the comparative percentages in the nine class-sizes for the fall term, 1931-32; the spring term, 1931-32; the fall term, 1932-33; the spring term, 1932-33; the fall term, 1933-34; the spring term, 1933-34; the fall term, 1934-35; the spring term, 1934-35, and the fall term, 1935-36.

TABLE XII

Percent of Classes in Each Class-Size
Compared for Nine Terms

Size of Class	All H.S. Classes Fall Term 1931-32	All H.S. Classes Spring Term 1931-32	All H.S. Classes Fall Term 1932-33	All H.S. Classes Spring Term 1932-33	All H.S. Classes Fall Term 1933-34	All H.S. Classes Spring Term 1933-34	All H.S. Classes Fall Term 1934-35	All H.S. Classes Spring Term 1934-35	All H.S. Classes Fall Term 1935-36
35 or over	33.40	33.00	43.00	44.93	42.09	43.36	41.28	43.60	44.85
30-34	22.60	24.50	22.20	21.52	23.57	21.31	21.65	22.94	22.13
25-29	23.60	24.20	22.40	22.22	19.99	20.11	22.12	20.22	20.26
20-24	18.00	16.50	11.10	10.49	12.64	12.40	12.49	11.29	11.09
Less than 20	2.40	1.80	1.30	.84	1.71	2.82	2.46	1.95	1.67

(City & County) Board of Education.

SAN FRANCISCO ~~PUBLIC SCHOOLS~~

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TEACHERS' GRADES

SAN FRANCISCO JUNIOR HIGH SCHOOLS

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BULLETIN NO. 73

February 1936

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Assistants

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TEACHERS' GRADES
SAN FRANCISCO JUNIOR HIGH SCHOOLS
SPRING TERM, 1934-1935

The data which formed the basis of this study were derived from reports of grades given by the Junior High School teachers during the Spring term 1935. A range for the distribution of marks was suggested to the teachers by Mr. Nolan and the Junior high school principals. This range is as follows:

5% to 15%	A = Excellent
20% to 35%	B = Good
20% to 35%	C = Average
5% to 15%	D = Barely Passing
0% to 5%	F = Failure

The form upon which the teachers reported their marks follows:

_____ Junior High School _____ Department

REPORT OF MARKS -- SPRING TERM 1935

Teacher		For Period Ending											
Class	Subject	A		B		C		D		F		Total Marks Given	Remarks
		No.	%	No.	%	No.	%	No.	%	No.	%		
1.													
2.													
3.													
4.													
5.													
6.													
Total													

The range for distribution of marks approved by Mr. Nolan is: A, 5% to 15%; B, 20% to 35%; C, 20% to 35%; D, 5% to 15%; F, 0% to 5%.

1. Please use this form.
2. It is important that the percents add to approximately 100%.
3. Enter incompletes as F's.
4. It is essential that the figures for the column "Total Marks Given" be entered and that the totals of marks check both vertically and across.
5. Percents in the total line must be computed and total 100%.

T A B L E I

Comparison of Number of Correct Grades By Schools:

School	No. of Tchrs. Report- ing	Total A's	A's in Limits	A's out of Limits	% A's in Limits	Total B's	B's in Limits	B's out of Limits	% B's in Limits	Total C's	C's in Limits	C's out of Limits	% C's in Limits
Aptos	45	45	29	16	64	45	27	18	60	45	24	21	53
Everett	60	60	42	18	70	60	48	12	80	60	29	31	48
Francisco	40	40	23	17	57	40	22	18	55	40	16	24	40
Horace Mann	37	37	23	14	62	37	20	17	54	37	14	23	38
James Lick	22	22	14	8	63	22	16	6	73	22	—	14	32
John Swett	24	24	18	6	75	24	16	8	67	24	16	8	67
Presidio	54	54	35	19	65	54	26	28	49	54	22	32	59
Portola	35	35	27	8	77	35	28	7	80	35	12	23	34
Roosevelt	42	42	31	11	74	42	33	9	79	42	21	21	50
TOTALS	359	359	242	117	67	359	236	123	65	359	162	197	45

School	No. of Tchrs. Report- ing	Total D's	D's in Limits	D's out of Limits	% D's in Limits	Total F's	F's in Limits	F's out of Limits	% F's in Limits	Total Grades in Limits	Total Grades out of Limits	Total. % in Limits	Total % out of Limits	School's Rating
Aptos	45	45	33	12	73	45	40	5	89	153	72	68	32	3
Everett	60	60	42	18	70	60	39	21	65	200	100	67	33	4
Francisco	40	40	24	16	60	40	31	9	77	116	84	58	42	8
Horace Mann	37	37	27	10	73	37	33	4	89	117	68	64	36	5
James Lick	22	22	17	5	77	22	20	2	91	75	35	68	32	3
John Swett	24	24	21	3	88	24	24	0	100	95	25	79	21	1
Presidio	54	54	35	19	65	54	47	7	87	165	105	51	39	7
Portola	35	35	21	14	60	35	22	13	63	110	65	62	38	6
Roosevelt	42	42	30	12	71	42	35	7	83	150	60	71	29	2
TOTALS	359	359	250	109	69	359	291	68	81	1181	614	65	35	

From Table I, it can be seen that the nine junior high schools reported a total of 1795 marks and that of this total 1181 grades were in the limits prescribed and 614 grades were without the limits prescribed. Expressed as percents, 65 percent of the grades were in the limits and 35 percent were without the limits.

Considering the five grades A-B-C-D-F, it is evident that the greatest deviation from the limits set up was for grade C since only 45 percent of the C's given were within the limits. This is probably what could have been expected since teachers as a rule use the C classification when in doubt and also to escape giving undeserved B's or D's. In other words, teachers give C's when pupils have made an honest effort with at least modest accomplishment. The C grade is also used to place a student of A or B capacity who will not work up to capacity; hence the overuse of the C grade and its consequent wide departure from the limits prescribed.

Table I also shows that in the matter of awarding grades of D and F, the teachers made their best showing, since 69% of the D's were within the limits set and 81% of the F's were within the limits set. The grades of A and B were 67% and 65% within the limits respectively.

TABLE II

Teachers Grades Within and Without the Prescribed Limits by Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	44	15	44	15	23	36	38	21	49	10	198	97	67	33
Social Science	35	15	43	7	24	26	32	18	37	13	171	79	68	32
Mathematics	34	16	41	9	23	27	32	18	42	8	172	78	69	31
Language	14	7	9	12	12	9	15	6	19	2	69	36	60	40
Science	20	4	15	9	11	13	21	3	19	5	86	34	72	28
Commercial	7	8	8	7	8	7	10	5	11	4	44	31	58	42
Ind. Arts	28	15	26	17	16	27	30	13	35	8	135	80	62	38
H.H.Arts(Sewing)	4	7	3	8	9	2	10	1	10	1	36	19	65	35
Dom.Science(Cook)	8	7	5	10	6	9	8	7	12	3	39	36	52	48
Art	11	6	11	6	6	11	12	5	10	7	50	35	58	42
Music	18	8	18	8	12	14	21	5	25	1	94	36	72	28
Phys.Education	19	9	13	15	12	16	21	7	22	6	87	53	62	38
TOTALS	242	117	236	123	162	197	250	109	291	68	1181	614	65	35

Table II shows to what extent the teachers of the various Junior High School subjects graded within the limits set up.

Tables III - IV - V - VI - VII - VIII - IX - X - XI
 Distribution of Teachers' Grades in Each of the Junior High Schools.
 By Subjects.

TABLE III

Distribution of Teachers' Grades in APTOS JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	4	2	3	3	6	0	4	2	6	0	23	7	77	23
Social Science	2	3	5	0	4	1	3	2	4	1	18	7	72	18
Mathematics	3	3	4	2	4	2	6	0	6	0	23	7	77	23
Language	2	2	2	2	2	2	2	2	3	1	11	9	55	45
Science	2	1	2	1	1	2	3	0	1	2	9	6	60	40
Commercial	1	1	1	1	0	2	1	1	2	0	5	5	50	50
Ind.Arts	4	2	5	1	2	4	6	0	6	0	23	7	77	23
H.H.Arts-Sewing	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Dom.Science-Cook	1	1	0	2	0	2	0	2	2	0	3	7	30	70
Art	1	1	0	2	1	1	1	1	2	0	5	5	50	50
Music	5	0	2	3	2	3	4	1	5	0	18	7	72	18
Phys. Education	3	0	3	0	1	2	2	1	2	1	11	4	73	27
TOTALS	29	16	27	18	24	21	33	12	40	5	153	72	68	32

TABLE IV

Distribution of Teachers' Grades in EVERETT JUNIOR HIGH SCHOOL, By Subjects

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	9	2	10	1	5	6	7	4	7	4	38	17	69	31
Social Science	7	1	7	1	4	4	5	3	2	6	25	15	62	38
Mathematics	8	2	8	2	6	4	5	5	9	1	36	14	72	28
Language	1	1	1	1	1	1	2	0	2	0	7	3	70	30
Science	2	0	2	0	1	1	2	0	1	1	8	2	80	20
Commercial	1	1	2	0	1	1	1	1	1	1	6	4	60	40
Ind. Arts	5	2	7	0	2	5	4	3	4	3	22	13	63	37
H.H.Arts-Sewing	0	1	0	1	1	0	1	0	1	0	3	2	60	40
Dom.Science-Cook	1	3	3	1	3	1	3	1	1	3	11	9	55	45
Art	2	1	2	1	0	3	2	1	2	1	8	7	53	47
Music	2	2	3	1	2	2	4	0	4	0	15	5	75	25
Phys.Education	4	2	3	3	3	5	6	0	5	1	21	9	70	30
TOTALS	42	18	48	12	29	31	42	18	39	21	200	100	67	33

TABLE V

Distribution of Teachers' Grades in FRANCISCO JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	5	2	3	4	4	3	5	2	6	1	23	12	66	34
Social Science	5	2	5	2	3	4	4	3	6	1	23	12	66	34
Mathematics	3	2	4	1	0	5	2	3	5	0	14	11	56	44
Language	0	2	1	1	1	1	2	0	2	0	6	4	60	40
Science	2	1	2	1	1	2	3	0	2	1	10	5	67	33
Commercial	1	1	0	2	1	1	2	0	1	1	5	5	50	50
Ind. Arts	2	3	2	3	1	4	2	3	1	4	8	17	32	68
H.H.Arts-Sewing	0	1	0	1	1	0	0	1	1	0	2	3	40	60
Dom. Science-Cook.	2	0	0	2	0	2	0	2	2	0	4	6	40	60
Art	1	1	2	0	1	1	1	1	2	0	7	3	70	30
Music	1	1	2	0	2	0	2	0	2	0	9	1	90	10
Phys. Education	1	1	1	1	1	1	1	1	1	1	5	5	50	50
TOTALS	23	17	22	18	16	24	24	16	31	9	116	84	58	42

TABLE VI

Distribution of Teachers' Grades in HORACE MANN JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	3	3	5	1	1	5	5	1	6	0	20	10	67	33
Social Science	2	3	4	1	1	4	3	2	4	1	14	11	56	44
Mathematics	6	0	5	1	1	5	5	1	4	2	21	9	70	30
Language	3	0	1	2	1	2	1	2	3	0	9	6	60	40
Science	3	0	1	2	2	1	3	0	3	0	12	3	80	20
Commercial	0	2	1	1	1	1	0	2	2	0	4	6	40	60
Ind. Arts	3	0	1	2	2	1	2	1	3	0	11	4	73	27
H.H.Arts-Sewing	0	2	0	2	1	1	2	0	2	0	5	5	50	50
Dom. Science-Cooking	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Art	1	1	1	1	1	1	2	0	1	1	6	4	60	40
Music	1	1	0	2	0	2	2	0	2	0	5	5	50	50
Phys. Education	0	2	1	1	2	0	1	1	2	0	6	4	60	40
TOTALS	23	14	20	17	14	23	27	10	33	4	117	68	64	36

TABLE VII

Distribution of Teachers' Grades in JAMES LICK JR. HIGH SCHOOL, By Subjects;

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	3	1	4	0	0	4	3	1	4	0	14	6	70	30
Social Science	3	0	3	0	1	2	2	1	2	1	11	4	73	27
Mathematics	2	1	2	1	2	1	2	1	3	0	11	4	73	27
Language	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Science	1	1	1	1	1	1	2	0	2	0	7	3	70	30
Commercial	0	1	1	0	0	1	1	0	1	0	3	2	60	40
Ind. Arts	2	1	2	1	1	2	2	1	3	0	10	5	67	33
H. H. Arts-Sewing	0	1	0	1	1	0	1	0	1	0	3	2	60	40
Dom. Science-Cooking	0	1	0	1	0	1	1	0	1	0	2	3	40	60
Art	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Music	0	1	1	0	1	0	0	1	1	0	3	2	60	40
Phys. Education	2	0	2	0	0	2	2	0	1	1	7	3	70	30
TOTALS	14	8	16	6	8	14	17	5	20	2	75	35	68	32

TABLE VIII

Distribution of Teachers' Grades in JOHN SWETT JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	4	0	3	1	2	2	3	1	4	0	16	4	80	20
Social Science	4	0	4	0	3	1	3	1	4	0	18	2	90	10
Mathematics	1	2	2	1	2	1	3	0	3	0	11	4	73	27
Language	1	0	1	0	1	0	1	0	1	0	5	0	100	0
Science	2	0	1	1	1	1	2	0	2	0	8	2	80	20
Commercial	1	0	1	0	0	1	1	0	1	0	4	1	80	20
Ind.Arts	3	1	2	2	4	0	3	1	4	0	16	4	80	20
H.H.Arts-Sewing	0	1	1	0	1	0	1	0	1	0	4	1	80	20
Dom. Science-Cook	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Art	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Music	1	1	1	1	1	1	2	0	2	0	7	3	70	30
Phys. Education	0	1	0	1	0	1	1	0	1	0	2	3	40	60
TOTALS	18	6	16	8	16	8	21	3	24	0	95	25	79	21

TABLE IX

Distribution of Teachers' Grades in PRESIDIO JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	4	2	4	2	2	4	2	4	6	0	18	12	60	40
Social Science	3	2	2	3	2	3	4	1	5	0	16	9	64	36
Mathematics	5	2	6	1	3	4	4	3	7	0	25	10	71	29
Language	4	1	1	4	5	0	3	2	4	1	17	8	68	32
Science	3	1	2	2	1	3	4	0	4	0	14	6	70	30
Commercial	1	2	1	2	3	0	2	1	2	1	9	6	60	40
Ind. Arts	3	3	2	4	1	5	4	2	6	0	16	14	53	47
H.H.Arts-Sewing	0	1	0	1	1	0	1	0	1	0	3	2	60	40
Dom. Science-Cook	1	2	0	3	2	1	1	2	3	0	7	8	47	53
Art	3	0	3	0	1	2	2	1	1	2	10	5	67	33
Music	3	1	3	1	0	4	3	1	3	1	12	8	60	40
Phys. Education	5	2	2	5	1	6	5	2	5	2	18	17	51	49
TOTALS	35	19	26	28	22	32	35	19	47	7	165	105	61	39

TABLE X

Distribution of Teachers' Grades in PORTOLA JUNIOR HIGH SCHOOL, By Subjects:

Subject	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	6	1	5	2	1	6	3	4	5	2	20	15	57	43
Social Science	4	2	6	0	2	4	3	3	3	3	18	12	60	40
Mathematics	2	2	4	0	2	2	2	2	1	3	11	9	55	45
Language	1	0	1	0	0	1	1	0	1	0	4	1	80	20
Science	2	0	1	1	1	1	0	2	1	1	5	5	50	50
Commercial	1	0	1	0	1	0	1	0	0	1	4	1	80	20
Ind. Arts	4	2	2	4	2	4	4	2	6	0	18	12	60	40
H.H.Arts-Sewing	2	0	2	0	1	1	2	0	1	1	8	2	80	20
Dom.Science- Cook	1	0	1	0	0	1	1	0	1	0	4	1	80	20
Art	2	0	2	0	0	2	2	0	0	2	6	4	60	40
Music	1	1	2	0	1	1	2	0	2	0	8	2	80	20
Phys.Education	1	0	1	0	1	0	0	1	1	0	4	1	80	20
TOTALS	27	8	28	7	12	23	21	14	23	13	110	65	62	38

TABLE XI

Distribution of Teachers' Grades in ROOSEVELT JUNIOR HIGH SCHOOL, By Subjects:

Subject.	A's		B's		C's		D's		F's		Totals		%	
	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
English	6	2	7	1	2	6	6	2	5	3	26	14	65	35
Social Science	5	2	7	0	4	3	5	2	7	0	28	7	80	20
Mathematics	4	2	6	0	3	3	3	3	4	2	20	10	67	33
Language	1	1	1	1	0	2	2	0	2	0	6	4	60	40
Science	3	0	3	0	2	1	2	1	3	0	13	2	87	13
Commercial	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Ind. Arts	2	1	3	0	1	2	3	0	2	1	11	4	73	27
H.H.Arts-Sewing	1	0	0	1	1	0	1	0	1	0	4	1	80	20
Dom.Science-Cook	1	0	1	0	0	1	1	0	1	0	4	1	80	20
Art	0	2	1	1	1	1	1	1	1	1	4	6	40	60
Music	4	0	4	0	3	1	2	2	4	0	17	3	85	15
Phys. Education	3	1	0	4	3	1	3	1	4	0	13	7	65	35
TOTALS	31	11	33	9	21	21	30	12	35	7	150	60	71	29

CONCLUSIONS:

For the Purpose of This Study the

1. Junior High School teachers during the Spring term 1935 reported 1795 grades. Of these grades 1181 or 65 per cent were distributed within scientifically determined limits and 614 grades or 35 per cent were not distributed within the limits prescribed.
2. The C, category of grading was most widely divergent from the standard established as desirable.
3. The average of grades within the limits set for the schools is 65 per cent, the Domestic Science (Cooking), Art, Commercial and Language teachers departed from this average more than the teachers of the other subjects. The grades within the limits for these four groups of teachers are as follows:

Domestic Science, 52 per cent, Art, 58 per cent, Commercial, 58 per cent, and Language, 60 per cent. All other teacher groups were 62 per cent or above.

The Science, Music, Mathematics, and Social Science teachers made the best showing with 72 per cent, 72 per cent, 69 per cent, and 68 per cent respectively within the limits prescribed.

